

[MS-WMCSOM]: Work Management Client-Side Object Model Protocol Specification

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Revision Summary

Date	Revision History	Revision Class	Comments
01/20/2012	0.1	New	Released new document.
04/11/2012	0.1	No change	No changes to the meaning, language, or formatting of the technical content.
07/16/2012	0.2	Major	Significantly changed the technical content.

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1 Introduction

The Work Management Client-Side Object Model Protocol defines types, methods, and properties that protocol clients use to access and manipulate tasks (3) assigned to a user on a protocol server that proxies to a Work Management service application.

Sections 1.8, 2, and 3 of this specification are normative and can contain the terms MAY, SHOULD, MUST, MUST NOT, and SHOULD NOT as defined in RFC 2119. Sections 1.5 and 1.9 are also normative but cannot contain those terms. All other sections and examples in this specification are informative.

1.1 Glossary

The following terms are defined in [\[MS-GLOS\]](#):

Hypertext Transfer Protocol (HTTP)
Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS) server

The following terms are defined in [\[MS-OFCGLOS\]](#):

aggregator
CSOM Boolean
CSOM DateTime
CSOM Int32
CSOM String
CSOM UInt32
endpoint
JavaScript Object Notation (JSON)
list
service application
session
site
task
Uniform Resource Identifier (URI)
Uniform Resource Locator (URL)
User Profile Service
view

The following terms are specific to this document:

MAY, SHOULD, MUST, SHOULD NOT, MUST NOT: These terms (in all caps) are used as described in [\[RFC2119\]](#). All statements of optional behavior use either MAY, SHOULD, or SHOULD NOT.

1.2 References

References to Microsoft Open Specifications documentation do not include a publishing year because links are to the latest version of the technical documents, which are updated frequently. References to other documents include a publishing year when one is available.

1.2.1 Normative References

We conduct frequent surveys of the normative references to assure their continued availability. If you have any issue with finding a normative reference, please contact dochelp@microsoft.com. We

will assist you in finding the relevant information. Please check the archive site, <http://msdn2.microsoft.com/en-us/library/E4BD6494-06AD-4aed-9823-445E921C9624>, as an additional source.

[MS-CSOM] Microsoft Corporation, "[SharePoint Client Query Protocol Specification](#)".

[MS-WMS] Microsoft Corporation, "[Work Management Service Web Service Protocol Specification](#)".

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997, <http://www.rfc-editor.org/rfc/rfc2119.txt>

1.2.2 Informative References

[MS-GLOS] Microsoft Corporation, "[Windows Protocols Master Glossary](#)".

[MS-OFCGLOS] Microsoft Corporation, "[Microsoft Office Master Glossary](#)".

[MS-WSSTS] Microsoft Corporation, "[Windows SharePoint Services Technical Specification](#)".

[RFC2616] Fielding, R., Gettys, J., Mogul, J., et al., "Hypertext Transfer Protocol -- HTTP/1.1", RFC 2616, June 1999, <http://www.ietf.org/rfc/rfc2616.txt>

[RFC2818] Rescorla, E., "HTTP Over TLS", RFC 2818, May 2000, <http://www.ietf.org/rfc/rfc2818.txt>

[RFC4627] Crockford, D., "The application/json Media Type for Javascript Object Notation (JSON)", RFC 4627, July 2006, <http://www.ietf.org/rfc/rfc4627.txt>

1.3 Overview

This protocol defines types, methods, and properties that protocol clients use to access and manipulate **tasks (3)** assigned to a user on a protocol **server (2)** that proxies to an instance of the Work Management **service application**.

Some typical scenarios in which a protocol client could use this protocol are: retrieving a user's task (3) **list (1)**, updating a task (3), and changing the order of tasks (3).

1.4 Relationship to Other Protocols

The Work Management Client-Side Object Model protocol is a set of types, properties, and methods that can be accessed by using the SharePoint Client Query Protocol as described in [\[MS-CSOM\]](#). This protocol uses **JavaScript Object Notation (JSON)** as described in [\[RFC4627\]](#) to format data returned to a protocol client. This protocol also uses **Hypertext Transfer Protocol (HTTP)**, as described in [\[RFC2616\]](#) and **Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)**, as described in [\[RFC2818\]](#). The dependencies for this protocol are shown in the following layering diagram.

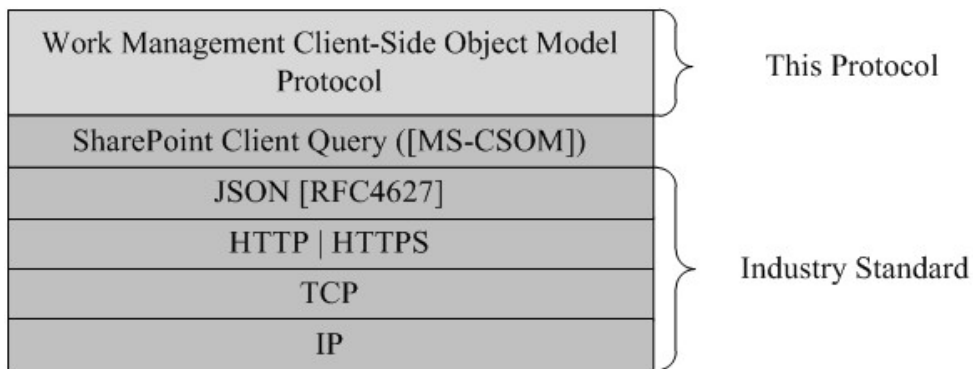


Figure 1: This protocol in relation to other protocols

1.5 Prerequisites/Preconditions

This protocol depends on the **User Profile Service** APIs to determine the **Uniform Resource Locator (URL)** for the **site (2)** to retrieve tasks (3) from.

This protocol operates against a protocol server that exposes one or more **endpoint (4) Uniform Resource Identifiers (URI)** that are known by protocol clients.

This protocol assumes that authentication has been performed by underlying protocols.

This protocol requires the protocol client to have appropriate permission to call the methods on the protocol server.

1.6 Applicability Statement

This protocol can be used by a protocol client to read data from, write data to, and execute operations against a protocol server (2). The protocol is optimized to enable a protocol client to specify the exact set of data and operations to perform in a single batch, making it suitable for situations where the connection speed between the protocol client and the protocol server (2) can be slow. Because of the complexity of the structure of requests and responses, it is not suitable for cases where the inputs and outputs need to be quickly understood and specified by a human. Because the protocol features minimal services for type and operation discovery, it is not suitable for protocol servers (2) that implement a different set of functionality compared to the set of functionality described for a collaboration server (2) in [\[MS-WSSTS\]](#).

1.7 Versioning and Capability Negotiation

This protocol operates in the context of the authenticated user that made a request to the service, and it runs in the context of a particular site (2). Localization-specific properties, such as the title of a list (1), are returned by using the preferred language of the user, if available, or by using the default language of the site (2) as a fallback.

1.8 Vendor-Extensible Fields

A protocol server (2) can provide additional properties and methods beyond those specified in this document to provide extended collaboration server (2) functionality; however, because no means are provided for a protocol client to discover that extended functionality, the functionality is taken advantage of only by protocol clients that have built-in knowledge of the extensions.

A protocol client is expected to be tolerant of the situation where particular methods and properties specified in this specification are not available, because either the protocol server (2) does not support the functionality or the administrator has disabled specific functionalities.

1.9 Standards Assignments

None.

Preliminary

2 Messages

2.1 Transport

Messages are transported by using the SharePoint Client Query Protocol, as specified in [\[MS-CSOM\]](#).

2.2 Message Syntax

2.2.1 Common Exceptions

The protocol server MUST validate the request from the protocol client. When a protocol server processes a CSOM operation in the request, the following table lists (1) common exceptions that could occur when accessing or updating a property or invoking a method.

Error code	Error type name	Condition
- 2147024891	System.UnauthorizedAccessException	The user does not have permission to access a property, update a property, or call a method.

Besides the preceding exceptions and the exceptions that are listed for the specific properties or methods, the protocol server can return other exceptions to the protocol client, for which the protocol client could use the error message for display purpose but could not use the error code or error type to determine the causes of the exception.

Exceptions listed for the specific properties are thrown for both read and write operations, unless otherwise specified.

3 Protocol Details

3.1 Client Details

3.1.1 Abstract Data Model

This protocol shares the abstract data model used by the SharePoint Client Query Protocol, as specified in [\[MS-CSOM\]](#) section 3.1.1 to communicate with the protocol server.

The protocol server maintains a collection of tasks (3) assigned to the current user that serves as a task (3) cache. It also maintains a collection of locations from which the source tasks (3) originate, which can consist of locations on the protocol server or external server, and settings for the user for managing tasks (3).

Most methods in this protocol perform operations that create, read, update, or delete data on these stored tasks (3). However, the **BeginCacheRefresh** and **BeginExchangeSync** methods call web service endpoints (4) on a service application that implements the Work Management Service Web Service protocol specified in [\[MS-WMS\]](#) to trigger refresh operations that update the cache with new and modified tasks (3), or synchronize tasks (3) assigned to the user with another task (3) server determined by the configuration of the service application. Tasks (3) are aggregated from other locations through task (3) providers configured on the service application.

3.1.2 Timers

None.

3.1.3 Initialization

None.

3.1.4 Higher-Layer Triggered Events

None.

3.1.5 Message Processing Events and Sequencing Rules

3.1.5.1 Microsoft.SharePoint.WorkManagement.Client.BaseSession

TypeId: {3FE45B91-5B30-447C-884F-0E1837215FF9}

ShortName: SP.WorkManagement.OM.BaseSession

Represents a base **session (2)** that is used to access the work management tasks (3).

3.1.5.1.1 Properties

3.1.5.1.1.1 Scalar Properties

None.

3.1.5.1.1.2 ObjectPath Properties

None.

3.1.5.1.2 Methods

3.1.5.1.2.1 Scalar Methods

3.1.5.1.2.1.1 BeginExchangeSync

Return Type: CSOM Boolean

Starts a server synchronization for the current user. Returns true if the synchronization started successfully.

Parameters: None

3.1.5.1.2.1.2 IsExchangeJobPending

Return Type: CSOM Boolean

Returns true if there is a server synchronization in progress for the user, or false otherwise.

Parameters: None

3.1.5.1.2.2 ObjectPath Methods

3.1.5.1.2.2.1 AddAttributeToTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Adds the specified string as a property on a task (3).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

attribute: Specifies the attribute to be added.

Type: CSOM String

3.1.5.1.2.2.2 BeginCacheRefresh

Return Type: Microsoft.SharePoint.WorkManagement.Client.CreateRefreshJobResult

Starts an operation to update a user's task (3) list (1) with new tasks (3) and with changes to existing tasks (3).

Parameters: None

3.1.5.1.2.2.3 CreateTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Creates a new task (3).

Parameters:

taskName: Specifies the task (3) name.

Type: CSOM String

description: Specifies the task (3) description.

Type: CSOM String

localizedStartDate: Specifies the start date as a string represented in the locale of the protocol client.

Type: CSOM String

localizedDueDate: Specifies the due date as a string represented in the locale of the protocol client.

Type: CSOM String

completed: Specifies whether the task (3) is finished (true) or not (false).

Type: CSOM Boolean

pinned: Specifies whether the task (3) is pinned (true) or not (false).

Type: CSOM Boolean

locationKey: Specifies the task (3) location identifier. Use -1 to specify that the task (3) has no location.

Type: CSOM Int32

editUrl: Specifies the URL to edit the task (3).

Type: CSOM String

3.1.5.1.2.2.4 DeleteTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Deletes a task (3).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

3.1.5.1.2.2.5 GetRefreshHistory

Return Type: Microsoft.SharePoint.WorkManagement.Client.GetRefreshHistoryResponse

Returns information about the latest task (3) cache refresh.

Parameters: None

3.1.5.1.2.2.6 GetRefreshStatus

Return Type: Microsoft.SharePoint.WorkManagement.Client.RefreshStatus

Returns the status of a refresh operation.

Parameters:

refreshId: Specifies the refresh identifier.

Type: CSOM Int32

3.1.5.1.2.2.7 PinTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Marks a task (3) as pinned.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

3.1.5.1.2.2.8 RemoveAttributeFromTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Removes the specified string property from a task (3). This will only remove properties that were added through the **AddAttributeToTask** method, as specified in section [3.1.5.1.2.2.1](#).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

attribute: Specifies the attribute to be removed.

Type: CSOM String

3.1.5.1.2.2.9 RemovePinOnTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Marks a task (3) as not pinned.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

3.1.5.1.2.2.10 UpdateTaskWithLocalizedValue

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Updates a task (3) field with a localized value.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

field: Specifies the field to be updated.

Type: Microsoft.SharePoint.WorkManagement.Client.WritableTaskField

value: Specifies the new value of the field.

Type: CSOM String

3.1.5.1.2.2.11 GetCalloutInfo

Return Type: Microsoft.SharePoint.WorkManagement.Client.CalloutInfo

Returns supplemental information about a task (3).

Parameters:

taskKey: Identifier of the task (3) to retrieve information for.

Type: CSOM Int32

3.1.5.1.2.2.12 ReadAllNonTaskData

Return Type: Microsoft.SharePoint.WorkManagement.Client.NonTaskDataReadResult

Returns information about a user's task (3) settings that is not specific to tasks (3) themselves.

Parameters: None

3.1.5.1.2.2.13 RefreshSingleTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskRefreshResult

Refreshes information about a specific task (3) with updates from the source.

Parameters:

taskKey: Identifier of the task (3) to refresh information for.

Type: CSOM Int32

3.1.5.2 Microsoft.SharePoint.WorkManagement.Client.BooleanCompareType

ShortName: SP.WorkManagement.OM.BooleanCompareType

Flag: false

Defines the Boolean comparison result values.

3.1.5.2.1 Field Values

3.1.5.2.1.1 NoValue

Value: 0

No value.

3.1.5.2.1.2 IsTrue

Value: 1

The result SHOULD be true.

3.1.5.2.1.3 IsFalse

Value: 2

The result SHOULD be false.

3.1.5.3 Microsoft.SharePoint.WorkManagement.Client.BooleanCriterion

TypeId: {16D379B2-E752-405E-A05F-A8FE05AA0D07}

ShortName: SP.WorkManagement.OM.BooleanCriterion

Object used to filter a task (3) list (1) on a Boolean property.

3.1.5.3.1 Properties

3.1.5.3.1.1 Scalar Properties

3.1.5.3.1.1.1 CompareType

Type: Microsoft.SharePoint.WorkManagement.Client.BooleanCompareType

Accessibility: Read/Write

Specifies the value to evaluate when filtering tasks (3).

3.1.5.3.1.2 ObjectPath Properties

None.

3.1.5.3.2 Methods

3.1.5.3.2.1 Scalar Methods

None.

3.1.5.3.2.2 ObjectPath Methods

3.1.5.3.2.2.1 CSOM Constructor

Creates a new **BooleanCriterion** object.

Parameters: None

3.1.5.4 Microsoft.SharePoint.WorkManagement.Client.CreateRefreshJobResult

TypeId: {B020A172-1E1C-4327-A356-6002D815E3EA}

ShortName: SP.WorkManagement.OM.CreateRefreshJobResult

Represents the result of a **BeginCacheRefresh** method, as specified in sections [3.1.5.1.2.2.2](#), [3.1.5.15.2.2.2](#), [3.1.5.16.2.2.2](#), [3.1.5.32.2.2.2](#), and [3.1.5.42.2.2.2](#).

3.1.5.4.1 Properties

3.1.5.4.1.1 Scalar Properties

3.1.5.4.1.1.1 CreatedJob

Type: CSOM Boolean

Accessibility: Read/Write

Specifies whether a job was created (true) or not (false).

3.1.5.4.1.1.2 CurrentJobId

Type: CSOM Int32

Accessibility: Read/Write

Specifies the created job identifier.

3.1.5.4.1.2 ObjectPath Properties

None.

3.1.5.4.2 Methods

3.1.5.4.2.1 Scalar Methods

None.

3.1.5.4.2.2 ObjectPath Methods

None.

3.1.5.5 Microsoft.SharePoint.WorkManagement.Client.CriterionConcatType

ShortName: SP.WorkManagement.OM.CriterionConcatType

Flag: false

Defines the logical types of criterion concatenation.

3.1.5.5.1 Field Values

3.1.5.5.1.1 NoValue

Value: 0

No value.

3.1.5.5.1.2 All

Value: 1

All criteria SHOULD be true (logical AND).

3.1.5.5.1.3 Any

Value: 2

At least one criterion SHOULD be true (logical OR).

3.1.5.6 Microsoft.SharePoint.WorkManagement.Client.CustomAttributeFilter

TypeId: {0E21BB74-7473-48B1-9F7B-D1185BA1CA71}

ShortName: SP.WorkManagement.OM.CustomAttributeFilter

Represents a filter with custom attributes.

3.1.5.6.1 Properties

3.1.5.6.1.1 Scalar Properties

3.1.5.6.1.1.1 Attributes

Type: CSOM Array

Accessibility: Read/Write

Specifies the list (1) of attributes.

3.1.5.6.1.1.2 ConcatType

Type: Microsoft.SharePoint.WorkManagement.Client.CriterionConcatType

Accessibility: Read/Write

Specifies how to concatenate the attribute results.

3.1.5.6.1.2 ObjectPath Properties

None.

3.1.5.6.2 Methods

3.1.5.6.2.1 Scalar Methods

None.

3.1.5.6.2.2 ObjectPath Methods

3.1.5.6.2.2.1 CSOM Constructor

Creates a new **CustomAttributeFilter** object.

Parameters: None

3.1.5.7

Microsoft.SharePoint.WorkManagement.Client.DashboardScriptExtensionInfo

TypeId: {D262CC71-32DB-4F83-8A1C-6986BD6F733F}

ShortName: SP.WorkManagement.OM.DashboardScriptExtensionInfo

Represents the JavaScript file and class that are associated with a specific task (3) provider for retrieving information that a protocol client can use to extend its user interface or other functionality. Information provided by the extension class is custom to each provider.

3.1.5.7.1 Properties

3.1.5.7.1.1 Scalar Properties

3.1.5.7.1.1.1 ProviderKey

Type: CSOM String

Accessibility: Read/Write

Specifies the provider identifier.

3.1.5.7.1.1.2 ScriptClass

Type: CSOM String

Accessibility: Read/Write

Specifies the name of the JavaScript class to call to provide information for the user interface.

3.1.5.7.1.1.3 ScriptData

Type: CSOM String

Accessibility: Read/Write

Specifies provider-specific custom data for a JavaScript extension.

3.1.5.7.1.1.4 ScriptFiles

Type: CSOM Array

Accessibility: Read/Write

Specifies the JavaScript files that SHOULD be loaded by the user interface.

3.1.5.7.1.2 ObjectPath Properties

None.

3.1.5.7.2 Methods

3.1.5.7.2.1 Scalar Methods

None.

3.1.5.7.2.2 ObjectPath Methods

None.

3.1.5.8 Microsoft.SharePoint.WorkManagement.Client.DateRangeCriterion

TypeId: {C9C79001-8E9D-4F24-860B-55BD22C13EAE}

ShortName: SP.WorkManagement.OM.DateRangeCriterion

Filters a task (3) list (1) on a **DateTime** property.

3.1.5.8.1 Properties

3.1.5.8.1.1 Scalar Properties

3.1.5.8.1.1.1 RangeEndValue

Type: CSOM DateTime

Accessibility: Read/Write

Specifies the end date of the range. Use **DateTime.MinValue** to represent no end date.

3.1.5.8.1.1.2 RangeStartValue

Type: CSOM DateTime

Accessibility: Read/Write

Specifies the start date of the range. Use **DateTime.MinValue** to represent no start date.

3.1.5.8.1.2 ObjectPath Properties

None.

3.1.5.8.2 Methods

3.1.5.8.2.1 Scalar Methods

None.

3.1.5.8.2.2 ObjectPath Methods

3.1.5.8.2.2.1 CSOM Constructor

Creates a new **DateRangeCriterion** object.

Parameters: None

3.1.5.9

Microsoft.SharePoint.WorkManagement.Client.GetRefreshHistoryResponse

TypeId: {8FEBD942-9CC1-47C0-9153-02A636BFD5DF}

ShortName: SP.WorkManagement.OM.GetRefreshHistoryResponse

Specifies the result of a **GetRefreshHistory** method, as specified in section [3.1.5.1.2.2.5](#), [3.1.5.15.2.2.5](#), [3.1.5.16.2.2.5](#), [3.1.5.32.2.2.5](#), and [3.1.5.42.2.2.5](#).

3.1.5.9.1 Properties

3.1.5.9.1.1 Scalar Properties

3.1.5.9.1.1.1 LatestRefreshTime

Type: CSOM DateTime

Accessibility: Read/Write

Specifies the time of the most recent refresh.

3.1.5.9.1.1.2 Succeeded

Type: CSOM Boolean

Accessibility: Read/Write

Specifies a value that indicates whether the refresh succeeded (true) or failed (false).

3.1.5.9.1.1.3 NewTasks

Type: CSOM Int32

Accessibility: Read/Write

Specifies the number of new tasks (3) that were found during the refresh.

3.1.5.9.1.2 ObjectPath Properties

3.1.5.9.1.2.1 ProviderErrors

Type: Microsoft.SharePoint.WorkManagement.Client.ProviderErrorInfoClientCollection

Accessibility: Read/Write

Specifies a collection of provider errors.

3.1.5.9.2 Methods

3.1.5.9.2.1 Scalar Methods

None.

3.1.5.9.2.2 ObjectPath Methods

None.

3.1.5.10 Microsoft.SharePoint.WorkManagement.Client.Location

TypeId: {0280FFCA-96C5-4C96-BBBB-759887950AFD}

ShortName: SP.WorkManagement.OM.Location

Represents information about a source location of the task (3). Locations can be hierarchical, where one location is located inside another.

3.1.5.10.1 Properties

3.1.5.10.1.1 Scalar Properties

3.1.5.10.1.1.1 Color

Type: CSOM String

Accessibility: Read/Write

Specifies the display color of the location as a hexadecimal number.

3.1.5.10.1.1.2 Id

Type: CSOM Int32

Accessibility: Read/Write

Specifies the location identifier.

3.1.5.10.1.1.3 Name

Type: CSOM String

Accessibility: Read/Write

Specifies the name of the location.

3.1.5.10.1.1.4 ParentId

Type: CSOM Int32

Accessibility: Read/Write

Specifies the location's parent identifier. MUST return -1 if it has no parent location.

3.1.5.10.1.1.5 RootProviderKey

Type: CSOM String

Accessibility: Read/Write

Specifies the root provider identifier of the location.

3.1.5.10.1.1.6 Url

Type: CSOM String

Accessibility: Read/Write

Specifies the URL of the location.

3.1.5.10.1.1.7 Important

Type: CSOM Boolean

Accessibility: Read/Write

Specifies whether the location is important (true) or not (false).

3.1.5.10.1.2 ObjectPath Properties

None.

3.1.5.10.2 Methods

3.1.5.10.2.1 Scalar Methods

None.

3.1.5.10.2.2 ObjectPath Methods

3.1.5.10.2.2.1 CSOM Constructor

Creates a new **Location** object.

Parameters: None

3.1.5.11 Microsoft.SharePoint.WorkManagement.Client.LocationClientCollection

TypeId: {2F28E64C-57DE-436F-B455-DCACFBAE647C}

ShortName: SP.WorkManagement.OM.LocationClientCollection

Represents a collection of locations.

3.1.5.11.1 Properties

3.1.5.11.1.1 Scalar Properties

None.

3.1.5.11.1.2 ObjectPath Properties

None.

3.1.5.11.2 Methods

3.1.5.11.2.1 Scalar Methods

None.

3.1.5.11.2.2 ObjectPath Methods

None.

3.1.5.12 Microsoft.SharePoint.WorkManagement.Client.LocationDisplaySetting

TypeId: {C9D8B21D-774A-4940-A45D-DC74859C0E6F}

ShortName: SP.WorkManagement.OM.LocationDisplaySetting

Represents the display settings for a location.

3.1.5.12.1 Properties

3.1.5.12.1.1 Scalar Properties

3.1.5.12.1.1.1 Color

Type: CSOM String

Accessibility: Read/Write

Specifies the display color of the location as a hexadecimal number.

3.1.5.12.1.1.2 Id

Type: CSOM Int32

Accessibility: Read/Write

Specifies the location identifier.

3.1.5.12.1.2 ObjectPath Properties

None.

3.1.5.12.2 Methods

3.1.5.12.2.1 Scalar Methods

None.

3.1.5.12.2.2 ObjectPath Methods

None.

3.1.5.13 Microsoft.SharePoint.WorkManagement.Client.LocationFilter

TypeId: {D9CE752E-01ED-4872-B4DA-FC362038FBF0}

ShortName: SP.WorkManagement.OM.LocationFilter

Represents a task (3) filter by location.

3.1.5.13.1 Properties

3.1.5.13.1.1 Scalar Properties

3.1.5.13.1.1.1 LocationKeys

Type: System.Int32[]

Accessibility: Read/Write

Specifies the location identifiers that SHOULD be included in the query.

3.1.5.13.1.1.2 IncludeUncategorizedTasks

Type: CSOM Boolean

Accessibility: Read/Write

Specifies whether to include tasks (3) that do not have a location in the results (true) or not (false).

3.1.5.13.1.2 ObjectPath Properties

None.

3.1.5.13.2 Methods

3.1.5.13.2.1 Scalar Methods

None.

3.1.5.13.2.2 ObjectPath Methods

3.1.5.13.2.2.1 CSOM Constructor

Creates a new **LocationFilter** object.

Parameters: None

3.1.5.14

Microsoft.SharePoint.WorkManagement.Client.LocationGroupClientCollection

TypeId: {25ACD8C5-C100-45DA-B4C5-2BF698F65649}

ShortName: SP.WorkManagement.OM.LocationGroupClientCollection

Represents a collection of tasks (3), ordered by location.

3.1.5.14.1 Properties

3.1.5.14.1.1 Scalar Properties

None.

3.1.5.14.1.2 ObjectPath Properties

None.

3.1.5.14.2 Methods

3.1.5.14.2.1 Scalar Methods

None.

3.1.5.14.2.2 ObjectPath Methods

3.1.5.14.2.2.1 CSOM Constructor

Creates a new **LocationGroupClientCollection** object.

Parameters: None

3.1.5.15

Microsoft.SharePoint.WorkManagement.Client.LocationOrientedSortableSession

TypeId: {A4DA2E47-975B-4352-934A-4DFE0167D509}

ShortName: SP.WorkManagement.OM.LocationOrientedSortableSession

Represents a session (2) with tasks (3) grouped by location and sorted within each location group.

3.1.5.15.1 Properties

3.1.5.15.1.1 Scalar Properties

None.

3.1.5.15.1.2 ObjectPath Properties

None.

3.1.5.15.2 Methods

3.1.5.15.2.1 Scalar Methods

3.1.5.15.2.1.1 MovePersonalTaskToLocation

Return Type: CSOM Boolean

Moves a task (3) to a new location if the task (3) is personal but does nothing if the task (3) comes from an external location. Returns true if the task (3) was moved successfully or false otherwise.

Parameters:

taskKey: Identifier of the task (3) to move.

Type: CSOM Int32

newLocationKey: Identifier of the new location.

Type: CSOM Int32

3.1.5.15.2.1.2 BeginExchangeSync

Return Type: CSOM Boolean

Starts a server synchronization for the current user. Returns true if the synchronization started successfully.

Parameters: None

3.1.5.15.2.1.3 IsExchangeJobPending

Return Type: CSOM Boolean

Returns true if there is a server synchronization in progress for the user, or false otherwise.

Parameters: None

3.1.5.15.2.2 ObjectPath Methods

3.1.5.15.2.2.1 AddAttributeToTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Adds the specified string as a property on a task (3).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

attribute: Specifies the string to be added.

Type: CSOM String

3.1.5.15.2.2.2 BeginCacheRefresh

Return Type: Microsoft.SharePoint.WorkManagement.Client.CreateRefreshJobResult

Starts an operation to update a user's task (3) list (1) with new tasks (3) and with changes to existing tasks (3).

Parameters: None

3.1.5.15.2.2.3 CreateTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Creates a new task (3).

Parameters:

taskName: Specifies the name of the task (3).

Type: CSOM String

description: Specifies the description of the task (3).

Type: CSOM String

localizedStartDate: Specifies the start date as a string represented in the locale of the protocol client.

Type: CSOM String

localizedDueDate: Specifies the due date as a string represented in the locale of the protocol client.

Type: CSOM String

completed: Specifies whether the task (3) is finished (true) or not (false)

Type: CSOM Boolean

pinned: Specifies whether the task (3) is pinned (true) or not (false).

Type: CSOM Boolean

locationKey: Specifies the location of the task (3). Use -1 to specify that the task (3) has no location.

Type: CSOM Int32

editUrl: Specifies the URL to edit the task (3).

Type: CSOM String

3.1.5.15.2.2.4 DeleteTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Deletes a task (3).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

3.1.5.15.2.2.5 GetRefreshHistory

Return Type: Microsoft.SharePoint.WorkManagement.Client.GetRefreshHistoryResponse

Returns information about the latest task (3) cache refresh.

Parameters: None

3.1.5.15.2.2.6 GetRefreshStatus

Return Type: Microsoft.SharePoint.WorkManagement.Client.RefreshStatus

Returns the status of a refresh operation.

Parameters:

refreshId: Specifies the refresh identifier.

Type: CSOM Int32

3.1.5.15.2.2.7 PinTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Marks a task (3) as pinned.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

3.1.5.15.2.2.8 ReadTasks

Return Type: Microsoft.SharePoint.WorkManagement.Client.LocationGroupClientCollection

Returns a collection of tasks (3) ordered and grouped by location, and filtered by the query parameter.

Parameters:

query: Specifies the query.

Type: Microsoft.SharePoint.WorkManagement.Client.SortableTaskQuery

3.1.5.15.2.2.9 RemoveAttributeFromTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Removes the specified string property from a task (3). This will only remove properties that were added through the **AddAttributeToTask** method, as specified in section [3.1.5.15.2.2.1](#).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

attribute: Specifies the attribute to be removed.

Type: CSOM String

3.1.5.15.2.2.10 RemovePinOnTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Marks a task (3) as not pinned.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

3.1.5.15.2.2.11 UpdateTaskWithLocalizedValue

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Updates a field of the task (3) with a string represented in the locale of the protocol client.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

field: Specifies the field to be updated.

Type: Microsoft.SharePoint.WorkManagement.Client.WritableTaskField

value: Specifies the new value for the field.

Type: CSOM String

3.1.5.15.2.2.12 GetCalloutInfo

Return Type: Microsoft.SharePoint.WorkManagement.Client.CalloutInfo

Returns supplemental information about a task (3).

Parameters:

taskKey: Identifier of the task (3) to retrieve information for.

Type: CSOM Int32

3.1.5.15.2.2.13 ReadAllNonTaskData

Return Type: Microsoft.SharePoint.WorkManagement.Client.NonTaskDataReadResult

Returns information about a user's task (3) settings that is not specific to tasks (3) themselves.

Parameters: None

3.1.5.15.2.2.14 RefreshSingleTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskRefreshResult

Refreshes information about a specific task (3) with updates from the source.

Parameters:

taskKey: Identifier of the task (3) to update.

Type: CSOM Int32

3.1.5.16

Microsoft.SharePoint.WorkManagement.Client.LocationOrientedUserOrderedSession

TypeId: {3ACA594A-48B1-47AA-BBCD-7FD1A2DEC5F9}

ShortName: SP.WorkManagement.OM.LocationOrientedUserOrderedSession

Represents a session (2) with tasks (3) grouped by location, and with user sorting.

3.1.5.16.1 Properties

3.1.5.16.1.1 Scalar Properties

None.

3.1.5.16.1.2 ObjectPath Properties

None.

3.1.5.16.2 Methods

3.1.5.16.2.1 Scalar Methods

3.1.5.16.2.1.1 MovePersonalTaskToLocation

Return Type: CSOM Boolean

Moves a task (3) to a new location if the task (3) is personal but does nothing if the task (3) comes from an external location. Returns true if the task (3) was moved successfully or false otherwise.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

newLocationKey: Specifies the new location identifier.

Type: CSOM Int32

3.1.5.16.2.1.2 ReorderTask

Return Type: None

Changes the order of a task (3).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

newAfterTaskKey: Specifies the task (3) identifier for the task (3) that *@taskKey* will be moved after.

Type: CSOM Int32

3.1.5.16.2.1.3 BeginExchangeSync

Return Type: CSOM Boolean

Starts a server synchronization for the current user. Returns true if the synchronization started successfully.

Parameters: None

3.1.5.16.2.1.4 IsExchangeJobPending

Return Type: CSOM Boolean

Returns true if there is a server synchronization in progress for the user, or false otherwise.

Parameters: None

3.1.5.16.2.2 ObjectPath Methods

3.1.5.16.2.2.1 AddAttributeToTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Adds the specified string as a property on a task (3).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

attribute: Specifies the attribute to be added.

Type: CSOM String

3.1.5.16.2.2.2 BeginCacheRefresh

Return Type: Microsoft.SharePoint.WorkManagement.Client.CreateRefreshJobResult

Starts an operation to update a user's task (3) list (1) with new tasks (3) and with changes to existing tasks (3).

Parameters: None

3.1.5.16.2.2.3 CreateTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Creates a new task (3).

Parameters:

taskName: Specifies the task (3) name.

Type: CSOM String

description: Specifies the task (3) description.

Type: CSOM String

localizedStartDate: Specifies the task (3) start date as a string represented in the locale of the protocol client.

Type: CSOM String

localizedDueDate: Specifies the task (3) due date as a string represented in the locale of the protocol client.

Type: CSOM String

completed: Specifies whether the task (3) is finished (true) or not (false).

Type: CSOM Boolean

pinned: Specifies whether the task (3) is pinned (true) or not (false).

Type: CSOM Boolean

locationKey: Specifies the task (3) location identifier. Use -1 to specify that the task (3) has no location.

Type: CSOM Int32

editUrl: Specifies the URL to edit the task (3).

Type: CSOM String

3.1.5.16.2.2.4 DeleteTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Deletes a task (3).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

3.1.5.16.2.2.5 GetRefreshHistory

Return Type: Microsoft.SharePoint.WorkManagement.Client.GetRefreshHistoryResponse

Returns information about the latest task (3) cache refresh.

Parameters: None

3.1.5.16.2.2.6 GetRefreshStatus

Return Type: Microsoft.SharePoint.WorkManagement.Client.RefreshStatus

Returns the status of a refresh operation.

Parameters:

refreshId: Specifies the refresh identifier.

Type: CSOM Int32

3.1.5.16.2.2.7 PinTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Marks a task (3) as pinned.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

3.1.5.16.2.2.8 ReadTasks

Return Type: Microsoft.SharePoint.WorkManagement.Client.LocationGroupClientCollection

Returns a collection of tasks (3) sorted in a user-defined order, filtered by the given query, and grouped by location.

Parameters:

query: Specifies the query.

Type: Microsoft.SharePoint.WorkManagement.Client.TaskQuery

3.1.5.16.2.2.9 RemoveAttributeFromTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

The **RemoveAttributeFromTask** method removes the specified string property from a task (3). This will only remove properties that were added through the **AddAttributeToTask** method, as specified in section [3.1.5.16.2.2.1](#).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

attribute: Specifies the attribute to be removed.

Type: CSOM String

3.1.5.16.2.2.10 RemovePinOnTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Marks a task (3) as not pinned.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

3.1.5.16.2.2.11 UpdateTaskWithLocalizedValue

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Updates a field of the task (3) with a string represented in the locale of the protocol client.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

field: Specifies the field to be updated.

Type: Microsoft.SharePoint.WorkManagement.Client.WritableTaskField

value: Specifies the new value for the field.

Type: CSOM String

3.1.5.16.2.2.12 GetCalloutInfo

Return Type: Microsoft.SharePoint.WorkManagement.Client.CalloutInfo

Returns supplemental information about a task (3).

Parameters:

taskKey: Identifier of the task (3) to retrieve information for.

Type: CSOM Int32

3.1.5.16.2.2.13 ReadAllNonTaskData

Return Type: Microsoft.SharePoint.WorkManagement.Client.NonTaskDataReadResult

Returns information about a user's task (3) settings that is not specific to tasks (3) themselves.

Parameters: None

3.1.5.16.2.2.14 RefreshSingleTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskRefreshResult

Refreshes information about a specific task (3) with updates from the source.

Parameters:

taskKey: Identifier of the task (3) to update.

Type: CSOM Int32

3.1.5.17 Microsoft.SharePoint.WorkManagement.Client.LocationUpdateResult

TypeId: {4D0A3245-9B4F-4986-8B91-87F209FC8BC7}

ShortName: SP.WorkManagement.OM.LocationUpdateResult

Represents the result information from updating a location.

3.1.5.17.1 Properties

3.1.5.17.1.1 Scalar Properties

3.1.5.17.1.1.1 AddedCount

Type: CSOM UInt32

Accessibility: Read/Write

Specifies the number of tasks (3) added since the previous update.

3.1.5.17.1.1.2 RemovedCount

Type: CSOM UInt32

Accessibility: Read/Write

Specifies the number of tasks (3) removed since the previous update.

3.1.5.17.1.1.3 RootLocationId

Type: CSOM Int32

Accessibility: Read/Write

Specifies the provider's root location identifier.

3.1.5.17.1.1.4 UpdatedCount

Type: CSOM UInt32

Accessibility: Read/Write

Specifies the number of tasks (3) updated since the previous update.

3.1.5.17.1.2 ObjectPath Properties

None.

3.1.5.17.2 Methods

3.1.5.17.2.1 Scalar Methods

None.

3.1.5.17.2.2 ObjectPath Methods

None.

3.1.5.18

Microsoft.SharePoint.WorkManagement.Client.LocationUpdateResultClientCollection

TypeId: {ADC959FA-E5E6-4575-A998-A00CE60A9201}

ShortName: SP.WorkManagement.OM.LocationUpdateResultClientCollection

Represents a collection of **LocationUpdateResult** objects as specified in section [3.1.5.17](#).

3.1.5.18.1 Properties

3.1.5.18.1.1 Scalar Properties

None.

3.1.5.18.1.2 ObjectPath Properties

None.

3.1.5.18.2 Methods

3.1.5.18.2.1 Scalar Methods

None.

3.1.5.18.2.2 ObjectPath Methods

None.

3.1.5.19 Microsoft.SharePoint.WorkManagement.Client.NameCriterion

TypeId: {1C2A7A53-2CDD-4C21-8DD6-1673656ECA45}

ShortName: SP.WorkManagement.OM.NameCriterion

Object used to filter tasks (3) based on a string property representing the name of a task (3).

3.1.5.19.1 Properties

3.1.5.19.1.1 Scalar Properties

3.1.5.19.1.1.1 CompareType

Type: Microsoft.SharePoint.WorkManagement.Client.StringCompareType

Accessibility: Read/Write

Specifies the comparison operation to use when filtering on a string property.

3.1.5.19.1.1.2 CompareValue

Type: CSOM String

Accessibility: Read/Write

Specifies the value to evaluate against when filtering tasks (3).

3.1.5.19.1.2 ObjectPath Properties

None.

3.1.5.19.2 Methods

3.1.5.19.2.1 Scalar Methods

None.

3.1.5.19.2.2 ObjectPath Methods

3.1.5.19.2.2.1 CSOM Constructor

Creates a new **NameCriterion** object.

Parameters: None

3.1.5.20 Microsoft.SharePoint.WorkManagement.Client.OrderInfo

TypeId: {8C385903-1E43-4256-8037-F7FF442154EC}

ShortName: SP.WorkManagement.OM.OrderInfo

Represents how to order the results of a sortable task (3) query.

3.1.5.20.1 Properties

3.1.5.20.1.1 Scalar Properties

3.1.5.20.1.1.1 Field

Type: Microsoft.SharePoint.WorkManagement.Client.SortableTaskField

Accessibility: Read/Write

Specifies the field to be used for sorting.

3.1.5.20.1.1.2 IsDescending

Type: CSOM Boolean

Accessibility: Read/Write

Specifies whether the sorting SHOULD be descending (true) or ascending (false).

3.1.5.20.1.2 ObjectPath Properties

None.

3.1.5.20.2 Methods

3.1.5.20.2.1 Scalar Methods

None.

3.1.5.20.2.2 ObjectPath Methods

3.1.5.20.2.2.1 CSOM Constructor

Creates a new **OrderInfo** object.

Parameters: None

3.1.5.21 Microsoft.SharePoint.WorkManagement.Client.PinAge

ShortName: SP.WorkManagement.OM.PinAge

Flag: false

Defines the pin age values.

3.1.5.21.1 Field Values

3.1.5.21.1.1 NoValue

Value: 0

No value.

3.1.5.21.1.2 Fresh

Value: 1

Specifies that the pin is fresh.

3.1.5.21.1.3 Stale

Value: 2

Specifies that the pin is stale.

3.1.5.22 Microsoft.SharePoint.WorkManagement.Client.PinnedState

ShortName: SP.WorkManagement.OM.PinnedState

Flag: false

Defines the pin state values.

3.1.5.22.1 Field Values

3.1.5.22.1.1 NoValue

Value: 0

No value.

3.1.5.22.1.2 Pinned

Value: 1

Specifies that the task (3) is pinned.

3.1.5.22.1.3 NotPinned

Value: 2

Specifies that the task (3) is not pinned.

3.1.5.23 Microsoft.SharePoint.WorkManagement.Client.ProviderErrorInfo

TypeId: {86FAD6B1-B741-43FD-8822-EE12938C5C13}

ShortName: SP.WorkManagement.OM.ProviderErrorInfo

Represents information about an error coming from a task (3) provider.

3.1.5.23.1 Properties

3.1.5.23.1.1 Scalar Properties

3.1.5.23.1.1.1 CorrelationId

Type: CSOM String

Accessibility: Read/Write

Specifies the unique identifier for the request or operation on the server associated with the error.

3.1.5.23.1.1.2 LastSuccessfulRefresh

Type: CSOM DateTime

Accessibility: Read/Write

Specifies the time of the last successful refresh.

3.1.5.23.1.1.3 LocalizedName

Type: CSOM String

Accessibility: Read/Write

Specifies the localized name of the provider that caused the error.

3.1.5.23.1.2 ObjectPath Properties

None.

3.1.5.23.2 Methods

3.1.5.23.2.1 Scalar Methods

None.

3.1.5.23.2.2 ObjectPath Methods

None.

3.1.5.24

Microsoft.SharePoint.WorkManagement.Client.ProviderErrorInfoClientCollection

TypeId: {8D2243E2-6F6F-47F1-A0CA-97DBA1D8AA25}

ShortName: SP.WorkManagement.OM.ProviderErrorInfoClientCollection

Represents a collection of **ProviderErrorInfo** objects as specified in section [3.1.5.23](#).

3.1.5.24.1 Properties

3.1.5.24.1.1 Scalar Properties

None.

3.1.5.24.1.2 ObjectPath Properties

None.

3.1.5.24.2 Methods

3.1.5.24.2.1 Scalar Methods

None.

3.1.5.24.2.2 ObjectPath Methods

None.

3.1.5.25 Microsoft.SharePoint.WorkManagement.Client.ProviderRefreshStatus

TypeId: {1B347470-E983-40EE-A794-0719DE3B37E6}

ShortName: SP.WorkManagement.OM.ProviderRefreshStatus

Represents the status of a provider refresh.

3.1.5.25.1 Properties

3.1.5.25.1.1 Scalar Properties

3.1.5.25.1.1.1 ErrorCorrelationId

Type: CSOM String

Accessibility: Read/Write

Specifies the unique identifier for the request or operation on the server associated with an error, if an error occurred during the refresh.

3.1.5.25.1.1.2 ProviderKey

Type: CSOM String

Accessibility: Read/Write

Specifies the provider identifier.

3.1.5.25.1.1.3 ProviderLocalizedName

Type: CSOM String

Accessibility: Read/Write

Specifies the localized name of the provider.

3.1.5.25.1.1.4 RefreshFinished

Type: CSOM DateTime

Accessibility: Read/Write

Specifies the time when the refresh finished.

3.1.5.25.1.1.5 RefreshStarted

Type: CSOM DateTime

Accessibility: Read/Write

Specifies the time when the refresh started.

3.1.5.25.1.1.6 RefreshState

Type: Microsoft.SharePoint.WorkManagement.Client.RefreshState

Accessibility: Read/Write

Specifies the refresh state.

3.1.5.25.1.1.7 RootLocationId

Type: CSOM Int32

Accessibility: Read/Write

Specifies the root location identifier of the provider.

3.1.5.25.1.2 ObjectPath Properties

None.

3.1.5.25.2 Methods

3.1.5.25.2.1 Scalar Methods

None.

3.1.5.25.2.2 ObjectPath Methods

None.

3.1.5.26

Microsoft.SharePoint.WorkManagement.Client.ProviderRefreshStatusClientCollection

TypeId: {934100A6-C55C-4CB5-BE34-E723029FC017}

ShortName: SP.WorkManagement.OM.ProviderRefreshStatusClientCollection

Represents a collection of **ProviderRefreshStatus** objects as specified in section [3.1.5.25](#).

3.1.5.26.1 Properties

3.1.5.26.1.1 Scalar Properties

None.

3.1.5.26.1.2 ObjectPath Properties

None.

3.1.5.26.2 Methods

3.1.5.26.2.1 Scalar Methods

None.

3.1.5.26.2.2 ObjectPath Methods

None.

3.1.5.27 Microsoft.SharePoint.WorkManagement.Client.RefreshEventInfo

TypeId: {AF042356-0857-4F34-B227-2E0B90956E3F}

ShortName: SP.WorkManagement.OM.RefreshEventInfo

Represents information about a refresh.

3.1.5.27.1 Properties

3.1.5.27.1.1 Scalar Properties

3.1.5.27.1.1.1 RefreshFinished

Type: CSOM DateTime

Accessibility: Read/Write

Specifies the time when the refresh finished.

3.1.5.27.1.1.2 RefreshId

Type: CSOM Int32

Accessibility: Read/Write

Specifies the refresh identifier.

3.1.5.27.1.2 ObjectPath Properties

3.1.5.27.1.2.1 TaskChangesByLocation

Type: Microsoft.SharePoint.WorkManagement.Client.LocationUpdateResultClientCollection

Accessibility: Read/Write

Specifies a collection of updated task (3) results per location.

3.1.5.27.1.2.2 RefreshJobStatus

Type: Microsoft.SharePoint.WorkManagement.Client.RefreshStatus

Accessibility: Read/Write

Specifies the status of a refresh operation.

3.1.5.27.2 Methods

3.1.5.27.2.1 Scalar Methods

None.

3.1.5.27.2.2 ObjectPath Methods

None.

3.1.5.28

Microsoft.SharePoint.WorkManagement.Client.RefreshEventInfoClientCollection

TypeId: {D81EC1DF-7F4B-4654-A46D-518DDEB9D674}

ShortName: SP.WorkManagement.OM.RefreshEventInfoClientCollection

Represents a collection of **RefreshEventInfo** objects as specified in section [3.1.5.27](#).

3.1.5.28.1 Properties

3.1.5.28.1.1 Scalar Properties

None.

3.1.5.28.1.2 ObjectPath Properties

None.

3.1.5.28.2 Methods

3.1.5.28.2.1 Scalar Methods

None.

3.1.5.28.2.2 ObjectPath Methods

None.

3.1.5.29 Microsoft.SharePoint.WorkManagement.Client.RefreshHistory

TypeId: {7F30CB13-9617-4FE3-936F-D3C0BEA1B2F7}

ShortName: SP.WorkManagement.OM.RefreshHistory

Represents information about the refresh history.

3.1.5.29.1 Properties

3.1.5.29.1.1 Scalar Properties

None.

3.1.5.29.1.2 ObjectPath Properties

3.1.5.29.1.2.1 Refreshes

Type: Microsoft.SharePoint.WorkManagement.Client.RefreshEventInfoClientCollection

Accessibility: Read/Write

Specifies the **RefreshEventInfo** objects (section [3.1.5.27](#)) representing all refresh operations for the current user.

3.1.5.29.2 Methods

3.1.5.29.2.1 Scalar Methods

None.

3.1.5.29.2.2 ObjectPath Methods

None.

3.1.5.30 Microsoft.SharePoint.WorkManagement.Client.RefreshState

ShortName: SP.WorkManagement.OM.RefreshState

Flag: false

Defines the refresh state values.

3.1.5.30.1 Field Values

3.1.5.30.1.1 NoValue

Value: 0

No value.

3.1.5.30.1.2 Pending

Value: 1

Specifies that the refresh is pending.

3.1.5.30.1.3 Ignored

Value: 2

Specifies that the refresh was ignored.

3.1.5.30.1.4 Succeeded

Value: 3

Specifies that the refresh succeeded.

3.1.5.30.1.5 Failed

Value: 4

Specifies that the refresh failed.

3.1.5.31 Microsoft.SharePoint.WorkManagement.Client.RefreshStatus

TypeId: {BE2BF39D-4134-407A-AFB6-8D16B0D8FA0D}

ShortName: SP.WorkManagement.OM.RefreshStatus

Represents the status of a refresh.

3.1.5.31.1 Properties

3.1.5.31.1.1 Scalar Properties

3.1.5.31.1.1.1 AggregatorRefreshState

Type: Microsoft.SharePoint.WorkManagement.Client.RefreshState

Accessibility: Read/Write

Specifies the refresh state of the **aggregator**.

3.1.5.31.1.2 ObjectPath Properties

3.1.5.31.1.2.1 ProviderStatuses

Type: Microsoft.SharePoint.WorkManagement.Client.ProviderRefreshStatusClientCollection

Accessibility: Read/Write

Specifies a collection of **ProviderRefreshStatus** objects (section [3.1.5.25](#)) representing the status of each task (3) provider.

3.1.5.31.2 Methods

3.1.5.31.2.1 Scalar Methods

None.

3.1.5.31.2.2 ObjectPath Methods

None.

3.1.5.32 Microsoft.SharePoint.WorkManagement.Client.SortableSession

TypeId: {5C81F0EA-999B-411E-A692-5962B32B206F}

ShortName: SP.WorkManagement.OM.SortableSession

Represents a session (2) of tasks (3) with a sort order.

3.1.5.32.1 Properties

3.1.5.32.1.1 Scalar Properties

None.

3.1.5.32.1.2 ObjectPath Properties

None.

3.1.5.32.2 Methods

3.1.5.32.2.1 Scalar Methods

3.1.5.32.2.1.1 BeginExchangeSync

Return Type: CSOM Boolean

Starts a server synchronization for the current user. Returns true if the synchronization started successfully.

Parameters: None

3.1.5.32.2.1.2 IsExchangeJobPending

Return Type: CSOM Boolean

Returns true if there is a server synchronization in progress for the user, or false otherwise.

Parameters: None

3.1.5.32.2.2 ObjectPath Methods

3.1.5.32.2.2.1 AddAttributeToTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Adds the specified string as a property on a task (3).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

attribute: Specifies the attribute to be added.

Type: CSOM String

3.1.5.32.2.2.2 BeginCacheRefresh

Return Type: Microsoft.SharePoint.WorkManagement.Client.CreateRefreshJobResult

Starts an operation to update a user's task (3) list (1) with new tasks (3) and with changes to existing tasks (3).

Parameters: None

3.1.5.32.2.2.3 CreateTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Creates a new task (3).

Parameters:

taskName: Specifies the task (3) name.

Type: CSOM String

description: Specifies the task (3) description.

Type: CSOM String

localizedStartDate: Specifies the start date as a string represented in the locale of the protocol client.

Type: CSOM String

localizedDueDate: Specifies the due date as a string represented in the locale of the protocol client.

Type: CSOM String

completed: Specifies whether the task (3) is finished (true) or not (false).

Type: CSOM Boolean

pinned: Specifies whether the task (3) is pinned (true) or not (false).

Type: CSOM Boolean

locationKey: Specifies the task (3) location identifier. Use -1 to specify that the task (3) has no location.

Type: CSOM Int32

editUrl: Specifies the URL to edit the task (3).

Type: CSOM String

3.1.5.32.2.2.4 DeleteTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Deletes a task (3).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

3.1.5.32.2.2.5 GetRefreshHistory

Return Type: Microsoft.SharePoint.WorkManagement.Client.GetRefreshHistoryResponse

Returns information about the latest task (3) cache refresh.

Parameters: None

3.1.5.32.2.2.6 GetRefreshStatus

Return Type: Microsoft.SharePoint.WorkManagement.Client.RefreshStatus

Returns the status of a refresh operation.

Parameters:

refreshId: Specifies the refresh identifier.

Type: CSOM Int32

3.1.5.32.2.2.7 PinTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Marks a task (3) as pinned.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

3.1.5.32.2.2.8 ReadTasks

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskClientCollection

Returns an ordered collection of tasks (3), filtered by the given query.

Parameters:

query: Specifies the query.

Type: Microsoft.SharePoint.WorkManagement.Client.SortableTaskQuery

3.1.5.32.2.2.9 RemoveAttributeFromTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Removes the specified string property from a task (3). This will only remove properties that were added through the **AddAttributeToTask** method, as specified in section [3.1.5.32.2.2.1](#).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

attribute: Specifies the attribute to be removed.

Type: CSOM String

3.1.5.32.2.2.10 RemovePinOnTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Marks a task (3) as not pinned.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

3.1.5.32.2.2.11 UpdateTaskWithLocalizedValue

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Updates a field of the task (3) with a string represented in the locale of the protocol client.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

field: Specifies the field to be updated.

Type: Microsoft.SharePoint.WorkManagement.Client.WritableTaskField

value: Specifies the new value of the field.

Type: CSOM String

3.1.5.32.2.2.12 GetCalloutInfo

Return Type: Microsoft.SharePoint.WorkManagement.Client.CalloutInfo

Returns supplemental information about a task (3).

Parameters:

taskKey: Identifier of the task (3) to retrieve information for.

Type: CSOM Int32

3.1.5.32.2.2.13 ReadAllNonTaskData

Return Type: Microsoft.SharePoint.WorkManagement.Client.NonTaskDataReadResult

Returns information about a user's task (3) settings that is not specific to tasks (3) themselves.

Parameters: None

3.1.5.32.2.2.14 RefreshSingleTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskRefreshResult

Refreshes information about a specific task (3) with updates from the source.

Parameters:

taskKey: Identifier of the task (3) to update.

Type: CSOM Int32

3.1.5.33 Microsoft.SharePoint.WorkManagement.Client.SortableSessionManager

TypeId: {924B1779-998E-4C60-A291-78EDEBC3C202}

ShortName: SP.WorkManagement.OM.SortableSessionManager

Manages sortable sessions (2), as specified in section [3.1.5.32](#).

3.1.5.33.1 Properties

3.1.5.33.1.1 Scalar Properties

None.

3.1.5.33.1.2 ObjectPath Properties

None.

3.1.5.33.2 Methods

3.1.5.33.2.1 Scalar Methods

None.

3.1.5.33.2.2 ObjectPath Methods

3.1.5.33.2.2.1 CreateLocationOrientedSession

Return Type: Microsoft.SharePoint.WorkManagement.Client.LocationOrientedSortableSession

Creates a location-oriented sortable session (2).

Parameters: None

3.1.5.33.2.2.2 CreateSession

Return Type: Microsoft.SharePoint.WorkManagement.Client.SortableSession

Creates a sortable session (2).

Parameters: None

3.1.5.33.2.2.3 CSOM Constructor

Creates a new **SortableSessionManager** object.

Parameters: None

3.1.5.34 Microsoft.SharePoint.WorkManagement.Client.SortableTaskField

ShortName: SP.WorkManagement.OM.SortableTaskField

Flag: false

Defines the sortable task (3) fields.

3.1.5.34.1 Field Values

3.1.5.34.1.1 NoValue

Value: 0

No value.

3.1.5.34.1.2 IsCompleted

Value: 11

Specifies the **IsCompleted** field.

3.1.5.34.1.3 Id

Value: 1

Specifies the **Id** field.

3.1.5.34.1.4 DueDate

Value: 5

Specifies the **DueDate** field.

3.1.5.34.1.5 Description

Value: 4

Specifies the **Description** field.

3.1.5.34.1.6 PinAge

Value: 19

Specifies the **PinAge** field.

3.1.5.34.1.7 Location

Value: 15

Specifies the **Location** field.

3.1.5.34.1.8 LastModified

Value: 14

Specifies the **LastModified** field.

3.1.5.34.1.9 DiscoveredDate

Value: 2

Specifies the **DiscoveredDate** field.

3.1.5.34.1.10 Title

Value: 18

Specifies the **Title** field.

3.1.5.35 Microsoft.SharePoint.WorkManagement.Client.SortableTaskQuery

TypeId: {F43AB2F6-B0E1-46F7-8FF6-A96540F7F595}

ShortName: SP.WorkManagement.OM.SortableTaskQuery

Represents a task (3) query with a sort order.

3.1.5.35.1 Properties

3.1.5.35.1.1 Scalar Properties

None.

3.1.5.35.1.2 ObjectPath Properties

3.1.5.35.1.2.1 CoreQuery

Type: Microsoft.SharePoint.WorkManagement.Client.TaskQuery

Accessibility: Read/Write

Specifies the core task (3) query.

3.1.5.35.1.2.2 Order

Type: Microsoft.SharePoint.WorkManagement.Client.OrderInfo

Accessibility: Read/Write

Specifies the ordering for the task (3) query result.

3.1.5.35.2 Methods

3.1.5.35.2.1 Scalar Methods

None.

3.1.5.35.2.2 ObjectPath Methods

3.1.5.35.2.2.1 CSOM Constructor

Creates a new **SortableTaskQuery** object.

Parameters: None

3.1.5.36 Microsoft.SharePoint.WorkManagement.Client.StringCompareType

ShortName: SP.WorkManagement.OM.StringCompareType

Flag: false

Defines string comparison operators that can be used when filtering queries on a string property.

3.1.5.36.1 Field Values

3.1.5.36.1.1 NoValue

Value: 0

No value.

3.1.5.36.1.2 Equals

Value: 1

Specifies that the strings are equal.

3.1.5.36.1.3 Contains

Value: 2

Specifies that one string is a substring of the other string.

3.1.5.36.1.4 BeginsWith

Value: 3

Specifies that one string begins with the other string.

3.1.5.37 Microsoft.SharePoint.WorkManagement.Client.Task

TypeId: {AF0507B6-EF4F-4029-A48A-943AFE14AEA6}

ShortName: SP.WorkManagement.OM.Task

Represents a task (3).

3.1.5.37.1 Properties

3.1.5.37.1.1 Scalar Properties

3.1.5.37.1.1.1 CustomAttributes

Type: CSOM Array

Accessibility: Read/Write

Specifies the custom attributes of the task (3).

3.1.5.37.1.1.2 Description

Type: CSOM String

Accessibility: Read/Write

Specifies the task (3) description.

3.1.5.37.1.1.3 DueDate

Type: CSOM DateTime

Accessibility: Read/Write

Specifies the task (3) due date.

3.1.5.37.1.1.4 EditUrl

Type: CSOM String

Accessibility: Read/Write

Specifies the URL to edit the task (3).

3.1.5.37.1.1.5 Id

Type: CSOM Int32

Accessibility: Read/Write

Specifies the task (3) identifier.

3.1.5.37.1.1.6 IsCompleted

Type: CSOM Boolean

Accessibility: Read/Write

Specifies whether the task (3) is finished (true) or not (false).

3.1.5.37.1.1.7 IsPersonal

Type: CSOM Boolean

Accessibility: Read/Write

Specifies whether the task (3) is personal (true) or not (false).

3.1.5.37.1.1.8 LastModified

Type: CSOM DateTime

Accessibility: Read/Write

Specifies the last time the task (3) was modified.

3.1.5.37.1.1.9 Name

Type: CSOM String

Accessibility: Read/Write

Specifies the task (3) name.

3.1.5.37.1.1.10 PinAge

Type: Microsoft.SharePoint.WorkManagement.Client.PinAge

Accessibility: Read/Write

Specifies the pin age of the task (3).

3.1.5.37.1.1.11 SerializedCustomDataForClient

Type: CSOM String

Accessibility: Read/Write

Specifies serialized custom data for a task (3).

3.1.5.37.1.1.12 StartDate

Type: CSOM DateTime

Accessibility: Read/Write

Specifies the time when the task (3) starts.

3.1.5.37.1.1.13 LocationId

Type: CSOM Int32

Accessibility: Read/Write

Specifies the location identifier.

3.1.5.37.1.1.14 IsReadOnly

Type: CSOM Boolean

Accessibility: Read/Write

A property that MAY be used to specify whether a task (3) is read-only (true) or not (false).

3.1.5.37.1.2 ObjectPath Properties

None.

3.1.5.37.2 Methods

3.1.5.37.2.1 Scalar Methods

None.

3.1.5.37.2.2 ObjectPath Methods

3.1.5.37.2.2.1 CSOM Constructor

Creates a new **Task** object.

Parameters: None

3.1.5.38 Microsoft.SharePoint.WorkManagement.Client.TaskClientCollection

TypeId: {1A855A95-EE52-4A94-B0AB-7020DDA6972A}

ShortName: SP.WorkManagement.OM.TaskClientCollection

Represents a collection of tasks (3).

3.1.5.38.1 Properties

3.1.5.38.1.1 Scalar Properties

None.

3.1.5.38.1.2 ObjectPath Properties

None.

3.1.5.38.2 Methods

3.1.5.38.2.1 Scalar Methods

None.

3.1.5.38.2.2 ObjectPath Methods

3.1.5.38.2.2.1 CSOM Constructor

Creates a new **TaskClientCollection** object.

Parameters: None

3.1.5.39 Microsoft.SharePoint.WorkManagement.Client.TaskFilter

TypeId: {3188516D-D569-40F8-8C01-1D48FBF5243C}

ShortName: SP.WorkManagement.OM.TaskFilter

Represents task (3) filter parameters for a task (3) query.

3.1.5.39.1 Properties

3.1.5.39.1.1 Scalar Properties

3.1.5.39.1.1.1 CriterionConcatType

Type: Microsoft.SharePoint.WorkManagement.Client.CriterionConcatType

Accessibility: Read/Write

Specifies the operator type for evaluating multiple filter clauses or task (3) identifiers in the query.

3.1.5.39.1.1.2 IdsToFilterBy

Type: System.Int32[]

Accessibility: Read/Write

Specifies the task (3) identifiers to be included in the query.

3.1.5.39.1.2 ObjectPath Properties

3.1.5.39.1.2.1 CompletedCriterion

Type: Microsoft.SharePoint.WorkManagement.Client.BooleanCriterion

Accessibility: Read/Write

Represents the conditions used for filtering tasks (3) by completion state.

3.1.5.39.1.2.2 DueDateRangeCriterion

Type: Microsoft.SharePoint.WorkManagement.Client.DateRangeCriterion

Accessibility: Read/Write

Represents the conditions used for filtering tasks (3) by due date within a specified range.

3.1.5.39.1.2.3 IsNewCriterion

Type: Microsoft.SharePoint.WorkManagement.Client.BooleanCriterion

Accessibility: Read/Write

Represents the conditions used for filtering tasks (3) that are newly discovered.

3.1.5.39.1.2.4 NameCriterion

Type: Microsoft.SharePoint.WorkManagement.Client.NameCriterion

Accessibility: Read/Write

Represents the conditions used for filtering tasks (3) by name.

3.1.5.39.1.2.5 StartDateRangeCriterion

Type: Microsoft.SharePoint.WorkManagement.Client.DateRangeCriterion

Accessibility: Read/Write

Represents the conditions used for filtering tasks (3) by start date in a specified range.

3.1.5.39.2 Methods

3.1.5.39.2.1 Scalar Methods

None.

3.1.5.39.2.2 ObjectPath Methods

3.1.5.39.2.2.1 CSOM Constructor

Creates a new **TaskFilter** object.

Parameters: None

3.1.5.40 Microsoft.SharePoint.WorkManagement.Client.TaskQuery

TypeId: {70C9591D-9A78-404A-9FE8-B50B1E02CD93}

ShortName: SP.WorkManagement.OM.TaskQuery

Represents a query used to retrieve tasks (3) from the server.

3.1.5.40.1 Properties

3.1.5.40.1.1 Scalar Properties

3.1.5.40.1.1.1 KeywordFilter

Type: CSOM String

Accessibility: Read/Write

Specifies the keywords for the query.

3.1.5.40.1.1.2 LastQueryTime

Type: CSOM DateTime

Accessibility: Read/Write

Specifies the last query time.

3.1.5.40.1.1.3 PinnedFilter

Type: Microsoft.SharePoint.WorkManagement.Client.PinnedState

Accessibility: Read/Write

Specifies the pinned state for the query.

3.1.5.40.1.2 ObjectPath Properties

3.1.5.40.1.2.1 CustomAttributeFilter

Type: Microsoft.SharePoint.WorkManagement.Client.CustomAttributeFilter

Accessibility: Read/Write

Specifies the custom attributes for the query.

3.1.5.40.1.2.2 FieldFilter

Type: Microsoft.SharePoint.WorkManagement.Client.TaskFilter

Accessibility: Read/Write

Specifies the fields for the query.

3.1.5.40.1.2.3 LastModifiedDateRangeFilter

Type: Microsoft.SharePoint.WorkManagement.Client.DateRangeCriterion

Accessibility: Read/Write

Specifies the last modified date range for the query.

3.1.5.40.1.2.4 LocationFilter

Type: Microsoft.SharePoint.WorkManagement.Client.LocationFilter

Accessibility: Read/Write

Specifies the location for the query.

3.1.5.40.2 Methods

3.1.5.40.2.1 Scalar Methods

None.

3.1.5.40.2.2 ObjectPath Methods

3.1.5.40.2.2.1 CSOM Constructor

Creates a new **TaskQuery** object.

Parameters: None

3.1.5.41 Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

TypeId: {B43C5CFA-0632-4F49-B196-0AF62106CC46}

ShortName: SP.WorkManagement.OM.TaskWriteResult

Represents the result of a task (3) write operation.

3.1.5.41.1 Properties

3.1.5.41.1.1 Scalar Properties

3.1.5.41.1.1.1 Error

Type: Microsoft.SharePoint.WorkManagement.Client.WriteFieldErrorType

Accessibility: Read/Write

Specifies the error type of the operation.

3.1.5.41.1.1.2 ErrorMessage

Type: CSOM String

Accessibility: Read/Write

Specifies the error message of the operation.

3.1.5.41.1.2 ObjectPath Properties

3.1.5.41.1.2.1 Result

Type: Microsoft.SharePoint.WorkManagement.Client.Task

Accessibility: Read/Write

Specifies the updated task (3) after the write operation.

3.1.5.41.2 Methods

3.1.5.41.2.1 Scalar Methods

None.

3.1.5.41.2.2 ObjectPath Methods

None.

3.1.5.42 Microsoft.SharePoint.WorkManagement.Client.UserOrderedSession

TypeId: {76163D46-CD0D-4782-9069-9143CC45B991}

ShortName: SP.WorkManagement.OM.UserOrderedSession

Represents a session (2) with tasks (3) sorted by user.

3.1.5.42.1 Properties

3.1.5.42.1.1 Scalar Properties

None.

3.1.5.42.1.2 ObjectPath Properties

None.

3.1.5.42.2 Methods

3.1.5.42.2.1 Scalar Methods

3.1.5.42.2.1.1 ReorderTask

Return Type: None

Changes the order of a task (3).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

newAfterTaskKey: Specifies the task (3) identifier for the task (3) that *@taskKey* will be moved after.

Type: CSOM Int32

3.1.5.42.2.1.2 BeginExchangeSync

Return Type: CSOM Boolean

Starts a server synchronization for the current user. Returns true if the synchronization started successfully.

Parameters: None

3.1.5.42.2.1.3 IsExchangeJobPending

Return Type: CSOM Boolean

Returns true if there is a server synchronization in progress for the user, or false otherwise.

Parameters: None

3.1.5.42.2.2 ObjectPath Methods

3.1.5.42.2.2.1 AddAttributeToTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Adds the specified string as a property on a task (3).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

attribute: Specifies the attribute to be added.

Type: CSOM String

3.1.5.42.2.2.2 BeginCacheRefresh

Return Type: Microsoft.SharePoint.WorkManagement.Client.CreateRefreshJobResult

Starts an operation to update a user's task (3) list (1) with new tasks (3) and with changes to existing tasks (3).

Parameters: None

3.1.5.42.2.2.3 CreateTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Creates a new task (3).

Parameters:

taskName: Specifies the task (3) name.

Type: CSOM String

description: Specifies the task (3) description.

Type: CSOM String

localizedStartDate: Specifies the start date as a string represented in the locale of the protocol client.

Type: CSOM String

localizedDueDate: Specifies the due date as a string represented in the locale of the protocol client.

Type: CSOM String

completed: Specifies whether the task (3) is finished (true) or not (false).

Type: CSOM Boolean

pinned: Specifies whether the task (3) is pinned (true) or not (false).

Type: CSOM Boolean

locationKey: Specifies the task (3) location identifier. Use -1 to specify that the task (3) has no location.

Type: CSOM Int32

editUrl: Specifies the URL to edit the task (3).

Type: CSOM String

3.1.5.42.2.2.4 DeleteTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Deletes a task (3).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

3.1.5.42.2.2.5 GetRefreshHistory

Return Type: Microsoft.SharePoint.WorkManagement.Client.GetRefreshHistoryResponse

Returns information about the latest task (3) cache refresh.

Parameters: None

3.1.5.42.2.2.6 GetRefreshStatus

Return Type: Microsoft.SharePoint.WorkManagement.Client.RefreshStatus

Returns the status of a refresh operation.

Parameters:

refreshId: Specifies the refresh identifier.

Type: CSOM Int32

3.1.5.42.2.2.7 PinTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Marks a task (3) as pinned.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

3.1.5.42.2.2.8 ReadTasks

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskClientCollection

Returns a collection of tasks (3) sorted by user-defined order, filtered by the given query.

Parameters:

query: Specifies the query.

Type: Microsoft.SharePoint.WorkManagement.Client.TaskQuery

3.1.5.42.2.2.9 RemoveAttributeFromTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Removes the specified string property from a task (3). This will only remove properties that were added through the **AddAttributeToTask** method, as specified in section [3.1.5.42.2.2.1](#).

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

attribute: Specifies the attribute to be removed.

Type: CSOM String

3.1.5.42.2.2.10 RemovePinOnTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Marks a task (3) as not pinned.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

3.1.5.42.2.2.11 UpdateTaskWithLocalizedValue

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskWriteResult

Updates a field of the task (3) with a string represented in the locale of the protocol client.

Parameters:

taskKey: Specifies the task (3) identifier.

Type: CSOM Int32

field: Enumerator indicating which field SHOULD be updated.

Type: Microsoft.SharePoint.WorkManagement.Client.WritableTaskField

value: Specifies the new value of the field.

Type: CSOM String

3.1.5.42.2.2.12 GetCalloutInfo

Return Type: Microsoft.SharePoint.WorkManagement.Client.CalloutInfo

Returns supplemental information about a task (3).

Parameters:

taskKey: Identifier of the task (3) to retrieve information for.

Type: CSOM Int32

3.1.5.42.2.2.13 ReadAllNonTaskData

Return Type: Microsoft.SharePoint.WorkManagement.Client.NonTaskDataReadResult

Returns information about a user's task (3) settings that is not specific to tasks (3) themselves.

Parameters: None

3.1.5.42.2.2.14 RefreshSingleTask

Return Type: Microsoft.SharePoint.WorkManagement.Client.TaskRefreshResult

Refreshes information about a specific task (3) with updates from the source.

Parameters:

taskKey: Identifier of the task (3) to update.

Type: CSOM Int32

3.1.5.43

Microsoft.SharePoint.WorkManagement.Client.UserOrderedSessionManager

TypeId: {D82117FB-E4AA-4AB8-B590-CB2BE4B2F078}

ShortName: SP.WorkManagement.OM.UserOrderedSessionManager

Manages sessions (2) that have a sort order, as specified in section [3.1.5.16](#) and section [3.1.5.42](#).

3.1.5.43.1 Properties

3.1.5.43.1.1 Scalar Properties

None.

3.1.5.43.1.2 ObjectPath Properties

None.

3.1.5.43.2 Methods

3.1.5.43.2.1 Scalar Methods

None.

3.1.5.43.2.2 ObjectPath Methods

3.1.5.43.2.2.1 CreateLocationOrientedSession

Return Type: Microsoft.SharePoint.WorkManagement.Client.LocationOrientedUserOrderedSession

Creates a user-ordered location-oriented session (2).

Parameters: None

3.1.5.43.2.2.2 CreateSession

Return Type: Microsoft.SharePoint.WorkManagement.Client.UserOrderedSession

Creates a user-ordered session (2).

Parameters: None

3.1.5.43.2.2.3 CSOM Constructor

Creates a new **UserOrderedSessionManager** object.

Parameters: None

3.1.5.44 Microsoft.SharePoint.WorkManagement.Client.UserSettings

TypeId: {BEA67FB5-FB82-4388-B0E7-174BAA0EB51A}

ShortName: SP.WorkManagement.OM.UserSettings

Represents the settings for a user.

3.1.5.44.1 Properties

3.1.5.44.1.1 Scalar Properties

3.1.5.44.1.1.1 DaysAfterCurrentDateTimelineEnds

Type: CSOM Int32

Accessibility: Read/Write

Specifies the number of days after the current day when the timeline ends.

3.1.5.44.1.1.2 DaysATaskIsConsideredNewTask

Type: CSOM Int32

Accessibility: Read/Write

Specifies the number of days during which a task (3) is considered new.

3.1.5.44.1.1.3 DaysBeforeCurrentDateTimelineStarts

Type: CSOM Int32

Accessibility: Read/Write

Specifies the number of days before the current day when the timeline started.

3.1.5.44.1.1.4 ImportantTasksLimit

Type: CSOM Int32

Accessibility: Read/Write

Specifies the maximum number of days during which a task (3) is marked as important.

3.1.5.44.1.1.5 InactiveMonthsBeforeLocationExpiration

Type: CSOM Int32

Accessibility: Read/Write

Specifies the number of months a location needs to be inactive before it expires.

3.1.5.44.1.1.6 LateTasksLimit

Type: CSOM Int32

Accessibility: Read/Write

Specifies the maximum number of days to show a late task (3).

3.1.5.44.1.1.7 OldTasksLimit

Type: CSOM Int32

Accessibility: Read/Write

Specifies the number of months after which a task (3) is marked as old.

3.1.5.44.1.1.8 UpcomingTasksLimit

Type: CSOM Int32

Accessibility: Read/Write

Specifies the number of days to show a task (3) in the upcoming task (3) list (1).

3.1.5.44.1.1.9 ImportantLocationIds

Type: System.Int32[]

Accessibility: Read/Write

Specifies the locations that are important.

3.1.5.44.1.2 ObjectPath Properties

None.

3.1.5.44.2 Methods

3.1.5.44.2.1 Scalar Methods

None.

3.1.5.44.2.2 ObjectPath Methods

3.1.5.44.2.2.1 CSOM Constructor

Creates a new **UserSettings** object.

Parameters: None

3.1.5.45 Microsoft.SharePoint.WorkManagement.Client.UserSettingsManager

TypeId: {73B6F1D6-C69C-4787-8413-2BB14D336410}

ShortName: SP.WorkManagement.OM.UserSettingsManager

Manages user settings, as specified in section [3.1.5.44](#).

3.1.5.45.1 Properties

3.1.5.45.1.1 Scalar Properties

None.

3.1.5.45.1.2 ObjectPath Properties

None.

3.1.5.45.2 Methods

3.1.5.45.2.1 Scalar Methods

3.1.5.45.2.1.1 SetUserSettings

Return Type: None

Saves the user settings.

Parameters:

settings: Specifies the user settings.

Type: Microsoft.SharePoint.WorkManagement.Client.UserSettings

locationColorUpdates: Specifies the display settings of the location.

Type: Microsoft.SharePoint.WorkManagement.Client.LocationDisplaySetting[]

3.1.5.45.2.1.2 IsExchangeJobPending

Return Type: CSOM Boolean

Returns true if there is a server synchronization in progress for the user, or false otherwise.

Parameters: None

3.1.5.45.2.1.3 OptIntoExchangeSync

Return Type: Microsoft.SharePoint.WorkManagement.Client.ExchangeOptInResult

Turns on synchronization with a task (3) server for a user. [<1>](#)

Parameters: None

3.1.5.45.2.1.4 OptOutOfExchangeSync

Return Type: CSOM Boolean

Turns off task synchronization with a task (3) server for a user. [<2>](#)

Parameters: None

3.1.5.45.2.1.5 SetPersistedProperties

Return Type: None

Sets metadata that persists across sessions (2) for a user.

Parameters:

persistedProperties: Specifies the property values to persist.

Type: Microsoft.SharePoint.WorkManagement.Client.PersistedProperties

3.1.5.45.2.2 ObjectPath Methods

3.1.5.45.2.2.1 GetAllLocations

Return Type: Microsoft.SharePoint.WorkManagement.Client.LocationClientCollection

Returns all the locations.

Parameters: None

3.1.5.45.2.2.2 GetImportantLocations

Return Type: Microsoft.SharePoint.WorkManagement.Client.LocationClientCollection

Returns all the important locations.

Parameters: None

3.1.5.45.2.2.3 GetUserSettings

Return Type: Microsoft.SharePoint.WorkManagement.Client.UserSettings

Returns the user settings.

Parameters: None

3.1.5.45.2.2.4 GetLocations

Return Type: Microsoft.SharePoint.WorkManagement.Client.LocationClientCollection

Returns a collection of locations.

Parameters:

locationsId: Specifies the location identifiers.

Type: System.Int32[]

3.1.5.45.2.2.5 CSOM Constructor

Creates a new **UserSettingsManager** object.

Parameters: None

3.1.5.45.2.2.6 GetExchangeSyncInfo

Return Type: Microsoft.SharePoint.WorkManagement.Client.ExchangeUserSyncState

Returns information about a server synchronization for a user. [<3>](#)

Parameters: None

3.1.5.45.2.2.7 GetPersistedProperties

Return Type: Microsoft.SharePoint.WorkManagement.Client.PersistedProperties

Returns metadata that is persisted across sessions (2) for a user.

Parameters: None

3.1.5.46 Microsoft.SharePoint.WorkManagement.Client.ViewSelectionInfo

TypeId: {9C4B64C1-8722-45C0-9D9D-E61C2F36BB44}

ShortName: SP.WorkManagement.OM.ViewSelectionInfo

Represents information about the task (3) **view** selection.

3.1.5.46.1 Properties

3.1.5.46.1.1 Scalar Properties

3.1.5.46.1.1.1 Id

Type: CSOM Int32

Accessibility: Read/Write

Specifies the view identifier.

3.1.5.46.1.1.2 Image

Type: CSOM String

Accessibility: Read/Write

Specifies the image identifier.

3.1.5.46.1.1.3 Name

Type: CSOM String

Accessibility: Read/Write

Specifies the view name.

3.1.5.46.1.2 ObjectPath Properties

None.

3.1.5.46.2 Methods

3.1.5.46.2.1 Scalar Methods

None.

3.1.5.46.2.2 ObjectPath Methods

3.1.5.46.2.2.1 CSOM Constructor

Creates a new **ViewSelectionInfo** object.

Parameters: None

3.1.5.47 Microsoft.SharePoint.WorkManagement.Client.WritableTaskField

ShortName: SP.WorkManagement.OM.WritableTaskField

Flag: false

Defines the fields that can be updated on a task (3).

3.1.5.47.1 Field Values

3.1.5.47.1.1 NoValue

Value: 0

No value.

3.1.5.47.1.2 IsCompleted

Value: 11

Specifies the **IsCompleted** field.

3.1.5.47.1.3 DueDate

Value: 5

Specifies the **DueDate** field.

3.1.5.47.1.4 Description

Value: 4

Specifies the **Description** field.

3.1.5.47.1.5 Title

Value: 18

Specifies the **Title** field.

3.1.5.47.1.6 EditUrl

Value: 6

Specifies the **EditUrl** field.

3.1.5.47.1.7 StartDate

Value: 24

Specifies the **StartDate** field.

3.1.5.48 Microsoft.SharePoint.WorkManagement.Client.WriteFieldType

ShortName: SP.WorkManagement.OM.WriteFieldType

Flag: false

Defines the error values from a field write.

3.1.5.48.1 Field Values

3.1.5.48.1.1 NoValue

Value: 0

No value.

3.1.5.48.1.2 TaskNotFound

Value: 1

Specifies that the task (3) was not found.

3.1.5.48.1.3 InvalidInput

Value: 2

Specifies that the format of the input was not valid.

3.1.5.48.1.4 TaskDeleted

Value: 3

Specifies that the task (3) was deleted.

3.1.5.48.1.5 FieldConflict

Value: 4

Specifies that there was a field conflict error.

3.1.5.48.1.6 Validation

Value: 5

Specifies that there was a validation error.

3.1.5.48.1.7 LocationInvalid

Value: 6

Specifies that the location was not valid.

3.1.5.48.1.8 Unknown

Value: 7

Specifies that there was an unknown error.

3.1.5.48.1.9 DueDateInvalid

Value: 8

Specifies that the due date was not valid.

3.1.5.48.1.10 StartDateInvalid

Value: 9

Specifies that the start date was not valid.

3.1.5.48.1.11 DescriptionInvalid

Value: 10

Specifies that the description was not valid.

3.1.5.48.1.12 IsCompletedInvalid

Value: 11

Specifies that the completion value was not valid.

3.1.5.48.1.13 TitleInvalid

Value: 12

Specifies that the title was not valid.

3.1.5.48.1.14 EditUrlInvalid

Value: 13

Specifies that the edit URL was not valid.

3.1.5.49 Microsoft.SharePoint.WorkManagement.Client.PrivacyType

ShortName: SP.WorkManagement.OM.PrivacyType

Flag: false

Defines the privacy state values.

3.1.5.49.1 Field Values

3.1.5.49.1.1 None

Value: 0

None.

3.1.5.49.1.2 Personal

Value: 1

Specifies that a task (3) is personal and visible only to the user.

3.1.5.49.1.3 Public

Value: 2

Specifies that the task (3) was aggregated from another location.

3.1.5.50 Microsoft.SharePoint.WorkManagement.Client.CalloutInfo

TypeId: {B869CD40-9A6E-4C16-916F-C73EE85745CB}

ShortName: SP.WorkManagement.OM.CalloutInfo

Represents supplemental information about a task (3).

3.1.5.50.1 Properties

3.1.5.50.1.1 Scalar Properties

3.1.5.50.1.1.1 Contacts

Type: CSOM Array

Accessibility: Read/Write

Specifies users that the current task (3) is assigned to other than the current user.

3.1.5.50.1.1.2 Hierarchy

Type: CSOM Array

Accessibility: Read/Write

Specifies tasks (3) that are parents of the current task (3).

3.1.5.50.1.1.3 Predecessors

Type: CSOM Array

Accessibility: Read/Write

Specifies tasks (3) that the current task (3) depends on.

3.1.5.50.1.1.4 Successors

Type: CSOM Array

Accessibility: Read/Write

Specifies tasks (3) that depend on the current task (3).

3.1.5.50.1.1.5 Url

Type: CSOM String

Accessibility: Read/Write

Specifies the URL to edit the task (3).

3.1.5.50.1.2 ObjectPath Properties

None.

3.1.5.50.2 Methods

3.1.5.50.2.1 Scalar Methods

None.

3.1.5.50.2.2 ObjectPath Methods

None.

3.1.5.51

Microsoft.SharePoint.WorkManagement.Client.DashboardScriptExtensionInfoClientCollection

TypeId: {03644911-E5E9-4504-9F73-85D50B9DD6A0}

ShortName: SP.WorkManagement.OM.DashboardScriptExtensionInfoClientCollection

Represents a collection of **DashboardScriptExtensionInfo** objects (section [3.1.5.7](#)).

3.1.5.51.1 Properties

3.1.5.51.1.1 Scalar Properties

None.

3.1.5.51.1.2 ObjectPath Properties

None.

3.1.5.51.2 Methods

3.1.5.51.2.1 Scalar Methods

None.

3.1.5.51.2.2 ObjectPath Methods

None.

3.1.5.52 Microsoft.SharePoint.WorkManagement.Client.ExchangeOptInResult

ShortName: SP.WorkManagement.OM.ExchangeOptInResult

Flag: false

Represents status information for an operation to enable synchronization with an external task (3) server for a user.

3.1.5.52.1 Field Values

3.1.5.52.1.1 NoValue

Value: 0

No value.

3.1.5.52.1.2 Success

Value: 1

Specifies that the operation succeeded.

3.1.5.52.1.3 UnknownError

Value: 2

Specifies that there was an unknown error when enabling synchronization.

3.1.5.52.1.4 CouldNotConnectToExchange

Value: 3

Specifies that the operation could not connect with the external task (3) server.

3.1.5.52.1.5 CouldNotFindOrCreateMySite

Value: 4

Specifies that the synchronization operation could not find or create the user's personal site (2) in which to store synchronization data.

3.1.5.52.1.6 UserAlreadyOptedIn

Value: 5

Specifies that the user has already enabled task (3) server synchronization.

3.1.5.52.1.7 UserExchangeOperationPending

Value: 6

Specifies that an operation to enable synchronization is already in process.

3.1.5.52.1.8 UnsupportedExchangeVersion

Value: 7

Specifies that the version of the task (3) server is not compatible with the synchronization operation.

3.1.5.52.1.9 MissingEmailAddress

Value: 8

Specifies that the user's email address could not be found in the User Profile Service.

3.1.5.52.1.10 ExchangeWebServiceClientMissing

Value: 9

Specifies that the component required to connect to the external task (3) server is not available.

3.1.5.52.1.11 UnsupportedSharePointConfiguration

Value: 10

Specifies that the local server is not configured correctly for synchronization with an external task (3) server.

3.1.5.52.1.12 InvalidOrUnauthorizedUser

Value: 11

Specifies that the user specified is not valid or unauthorized on the external task (3) server.

3.1.5.53 Microsoft.SharePoint.WorkManagement.Client.ExchangeSyncResult

ShortName: SP.WorkManagement.OM.ExchangeSyncResult

Flag: false

Represents information about a task (3) server synchronization operation.

3.1.5.53.1 Field Values

3.1.5.53.1.1 NoValue

Value: 0

No value.

3.1.5.53.1.2 Success

Value: 1

Specifies that the synchronization operation succeeded.

3.1.5.53.1.3 UnknownError

Value: 2

Specifies that there was an unknown error during the synchronization.

3.1.5.53.1.4 CouldNotConnectToExchange

Value: 3

Specifies that the operation could not connect with the external task (3) server.

3.1.5.53.1.5 CouldNotGetUserCredentials

Value: 4

Specifies that the operation could not get credentials for the user it was trying to synchronize.

3.1.5.53.1.6 CouldNotKickoffJob

Value: 5

Specifies that a synchronization operation could not be started.

3.1.5.53.1.7 SyncWithErrors

Value: 6

Specifies that the synchronization finished but with errors.

3.1.5.54 Microsoft.SharePoint.WorkManagement.Client.ExchangeUserSyncState

TypeId: {DF02E325-1546-4E32-BEDE-704630D31669}

ShortName: SP.WorkManagement.OM.ExchangeUserSyncState

Represents status for external task (3) server synchronization operations for a user.

3.1.5.54.1 Properties

3.1.5.54.1.1 Scalar Properties

3.1.5.54.1.1.1 IsOptedIn

Type: CSOM Boolean

Accessibility: Read Only

Specifies whether synchronization is enabled for a user or not.

3.1.5.54.1.1.2 LastEndTime

Type: CSOM DateTime

Accessibility: Read Only

Specifies when the last synchronization operation completed.

3.1.5.54.1.1.3 LastSyncResult

Type: Microsoft.SharePoint.WorkManagement.Client.ExchangeSyncResult

Accessibility: Read Only

Specifies the outcome of the last synchronization operation for the user.

3.1.5.54.1.2 ObjectPath Properties

None.

3.1.5.54.2 Methods

3.1.5.54.2.1 Scalar Methods

None.

3.1.5.54.2.2 ObjectPath Methods

None.

3.1.5.55 Microsoft.SharePoint.WorkManagement.Client.NonTaskDataReadResult

TypeId: {D1A564B4-5E35-4A5B-92B6-99DC85DACDA4}

ShortName: SP.WorkManagement.OM.NonTaskDataReadResult

Represents information about a user's task (3) list (1) and experience settings that is not specific to the tasks (3) themselves.

3.1.5.55.1 Properties

3.1.5.55.1.1 Scalar Properties

None.

3.1.5.55.1.2 ObjectPath Properties

3.1.5.55.1.2.1 AllLocatons

Type: Microsoft.SharePoint.WorkManagement.Client.LocationClientCollection

Accessibility: Read Only

Specifies the location of sources from which tasks (3) were aggregated.

3.1.5.55.1.2.2 PersistedProperties

Type: Microsoft.SharePoint.WorkManagement.Client.PersistedProperties

Accessibility: Read Only

Specifies persisted properties for the user.

3.1.5.55.1.2.3 RefreshHistory

Type: Microsoft.SharePoint.WorkManagement.Client.RefreshHistory

Accessibility: Read Only

Specifies information about the last time the user's tasks (3) list (1) was updated.

3.1.5.55.1.2.4 ScriptExtensions

Type: Microsoft.SharePoint.WorkManagement.Client.DashboardScriptExtensionInfoClientCollection

Accessibility: Read Only

Specifies script extensions for task (3) providers.

3.1.5.55.1.2.5 UserSettings

Type: Microsoft.SharePoint.WorkManagement.Client.UserSettings

Accessibility: Read Only

Specifies the setting values for the user.

3.1.5.55.2 Methods

3.1.5.55.2.1 Scalar Methods

None.

3.1.5.55.2.2 ObjectPath Methods

None.

3.1.5.56 Microsoft.SharePoint.WorkManagement.Client.PersistedProperties

TypeId: {C05EBF4C-F2C5-4167-9043-F21C4E1B682D}

ShortName: SP.WorkManagement.OM.PersistedProperties

Represents properties about the user's last interaction with system that should be persisted the next time the user loads the user experience.

3.1.5.56.1 Properties

3.1.5.56.1.1 Scalar Properties

3.1.5.56.1.1.1 FilteredLocationIds

Type: System.Int32[]

Accessibility: Read/Write

Specifies the locations filtered by the user in the user experience.

3.1.5.56.1.1.2 HasShownMarkAsImportantCallout

Type: CSOM Boolean

Accessibility: Read/Write

Specifies whether the user has been prompted to try to set a pin on a task (3) or not.

3.1.5.56.1.1.3 HasShownTaskListTooLongNotification

Type: CSOM Boolean

Accessibility: Read/Write

Specifies whether the user has been prompted that the user's task (3) list (1) has accumulated a large number of tasks (3) or not.

3.1.5.56.1.1.4 QuickLaunchLandingPage

Type: CSOM String

Accessibility: Read/Write

Specifies the default view when navigating to the user experience.

3.1.5.56.1.2 ObjectPath Properties

None.

3.1.5.56.2 Methods

3.1.5.56.2.1 Scalar Methods

None.

3.1.5.56.2.2 ObjectPath Methods

3.1.5.56.2.2.1 CSOM Constructor

Creates a new **PersistedProperties** object.

Parameters: None

3.1.5.57 Microsoft.SharePoint.WorkManagement.Client.TaskRefreshResult

TypeId: {7F3B5192-690D-40F0-A69F-553268333A61}

ShortName: SP.WorkManagement.OM.TaskRefreshResult

Represents result information when updating a specific task (3) from its source.

3.1.5.57.1 Properties

3.1.5.57.1.1 Scalar Properties

3.1.5.57.1.1.1 ErrorCorrelationId

Type: CSOM String

Accessibility: Read/Write

Specifies the unique identifier for the request or operation associated with an error if an error occurred during the update.

3.1.5.57.1.1.2 RefreshState

Type: Microsoft.SharePoint.WorkManagement.Client.RefreshState

Accessibility: Read/Write

Specifies the refresh state for the operation.

3.1.5.57.1.2 ObjectPath Properties

3.1.5.57.1.2.1 Result

Type: Microsoft.SharePoint.WorkManagement.Client.Task

Accessibility: Read/Write

Specifies the updated task (3) after applying the updates.

3.1.5.57.2 Methods

3.1.5.57.2.1 Scalar Methods

None.

3.1.5.57.2.2 ObjectPath Methods

None.

3.1.6 Timer Events

None.

3.1.7 Other Local Events

None.

Preliminary

4 Protocol Examples

4.1 Retrieving Active Tasks for a User

This example calls **ReadTasks** (section [3.1.5.16.2.2.8](#)) to get all tasks (3) that are not complete for the current user.

Request

```
<Request xmlns="http://schemas.microsoft.com/sharepoint/clientquery/2009"
SchemaVersion="15.0.0.0" LibraryVersion="15.0.0.0" ApplicationName="Javascript Library">
  <Actions>
    <ObjectPath Id="17" ObjectPathId="16" />
    <ObjectPath Id="19" ObjectPathId="18" />
    <ObjectPath Id="21" ObjectPathId="20" />
    <ObjectPath Id="23" ObjectPathId="22" />
    <ObjectPath Id="25" ObjectPathId="24" />
    <ObjectPath Id="27" ObjectPathId="26" />
    <ObjectPath Id="29" ObjectPathId="28" />
    <ObjectPath Id="31" ObjectPathId="30" />
    <SetProperty Id="32" ObjectPathId="28" Name="LocationFilter">
      <Parameter ObjectPathId="30" />
    </SetProperty>
    <SetProperty Id="33" ObjectPathId="30" Name="LocationKeys">
      <Parameter Type="Array" />
    </SetProperty>
    <SetProperty Id="34" ObjectPathId="30" Name="IncludeTasksInDescendantLocations">
      <Parameter Type="Boolean">true</Parameter>
    </SetProperty>
    <SetProperty Id="35" ObjectPathId="28" Name="KeywordFilter">
      <Parameter Type="Null" />
    </SetProperty>
    <ObjectPath Id="37" ObjectPathId="36" />
    <SetProperty Id="38" ObjectPathId="28" Name="FieldFilter">
      <Parameter ObjectPathId="36" />
    </SetProperty>
    <ObjectPath Id="40" ObjectPathId="39" />
    <SetProperty Id="41" ObjectPathId="36" Name="CompletedCriterion">
      <Parameter ObjectPathId="39" />
    </SetProperty>
    <SetProperty Id="42" ObjectPathId="39" Name="CompareType">
      <Parameter Type="Number">2</Parameter>
    </SetProperty>
    <ObjectPath Id="44" ObjectPathId="43" />
    <SetProperty Id="45" ObjectPathId="28" Name="LastModifiedDateRangeFilter">
      <Parameter ObjectPathId="43" />
    </SetProperty>
    <SetProperty Id="46" ObjectPathId="43" Name="RangeStartValue">
      <Parameter Type="DateTime">2009-11-17T23:34:52.370-08:00</Parameter>
    </SetProperty>
    <ObjectPath Id="48" ObjectPathId="47" />
    <ObjectPath Id="50" ObjectPathId="49" />
    <Query Id="51" ObjectPathId="49">
      <Query SelectAllProperties="true">
        <Properties />
      </Query>
    </Query>
    <ObjectPath Id="53" ObjectPathId="52" />
  </Actions>
</Request>
```

```

<Query Id="54" ObjectPathId="52">
  <Query SelectAllProperties="true">
    <Properties />
  </Query>
  <ChildItemQuery SelectAllProperties="true">
    <Properties />
  </ChildItemQuery>
</Query>
</Actions>
<ObjectPaths>
  <Constructor Id="16" TypeId="{9c4b64c1-8722-45c0-9d9d-e61c2f36bb44}" />
  <Constructor Id="18" TypeId="{9c4b64c1-8722-45c0-9d9d-e61c2f36bb44}" />
  <Constructor Id="20" TypeId="{9c4b64c1-8722-45c0-9d9d-e61c2f36bb44}" />
  <Constructor Id="22" TypeId="{9c4b64c1-8722-45c0-9d9d-e61c2f36bb44}" />
  <Constructor Id="24" TypeId="{9c4b64c1-8722-45c0-9d9d-e61c2f36bb44}" />
  <Constructor Id="26" TypeId="{9c4b64c1-8722-45c0-9d9d-e61c2f36bb44}" />
  <Constructor Id="28" TypeId="{70c9591d-9a78-404a-9fe8-b50b1e02cd93}" />
  <Constructor Id="30" TypeId="{d9ce752e-01ed-4872-b4da-fc362038fbf0}" />
  <Constructor Id="36" TypeId="{3188516d-d569-40f8-8c01-1d48fbf5243c}" />
  <Constructor Id="39" TypeId="{16d379b2-e752-405e-a05f-a8fe05aa0d07}" />
  <Constructor Id="43" TypeId="{c9c79001-8e9d-4f24-860b-55bd22c13eae}" />
  <Constructor Id="47" TypeId="{d82117fb-e4aa-4ab8-b590-cb2be4b2f078}" />
  <Method Id="49" ParentId="47" Name="CreateLocationOrientedSession" />
  <Method Id="52" ParentId="49" Name="ReadTasks">
    <Parameters>
      <Parameter ObjectPathId="28" />
    </Parameters>
  </Method>
</ObjectPaths>
</Request>

```

Response

The server returns a list (1) of tasks (3), which are named "Pay Rent", "Get Groceries", and "Remember the Milk".

```

[ { "ErrorInfo" : null,
  "LibraryVersion" : "15.0.3510.3000",
  "SchemaVersion" : "15.0.0.0"
},
17,
{ "IsNull" : false },
19,
{ "IsNull" : false },
21,
{ "IsNull" : false },
23,
{ "IsNull" : false },
25,
{ "IsNull" : false },
27,
{ "IsNull" : false },
29,
{ "IsNull" : false },
31,
{ "IsNull" : false },
37,

```

```

    { "IsNull" : false },
    40,
    { "IsNull" : false },
    44,
    { "IsNull" : false },
    48,
    { "IsNull" : false },
    50,
    { "IsNull" : false },
    51,
    { "_ObjectType_" : "SP.WorkManagement.OM.LocationOrientedUserOrderedSession" },
    53,
    { "IsNull" : false },
    54,
    { "_Child_Items_" : [ { "CustomAttributes" : [ ],
        "Description" : null,
        "DueDate" : "/Date(2011,10,18,0,0,0,0)/",
        "EditUrl" : "EditTask.aspx?taskId=13",
        "Id" : 13,
        "IsCompleted" : false,

        "IsPersonal" : true,

        "LastModified" : "/Date(1321572834000)/",
        "LocationId" : -1,
        "Name" : "Remember the Milk",
        "PinAge" : 0,
        "SerializedCustomDataForClient" : null,
        "StartDate" : "/Date(1,0,1,0,0,0,0)/",
        "_ObjectType_" : "SP.WorkManagement.OM.Task"
    },
    { "CustomAttributes" : [ ],
        "Description" : null,
        "DueDate" : "/Date(2011,3,29,10,0,0,0)/",
        "EditUrl" : "http://office:80/project/TaskDetails.aspx?proj=dca8826e-6562-49b1-
a968-853400d76085&assn=f4a10d33-dd48-4d1e-8b17-3dd327e9e219",
        "Id" : 1,
        "IsCompleted" : false,
        "IsPersonal" : false,
        "LastModified" : "/Date(1321572850000)/",
        "LocationId" : 2,
        "Name" : "Get Groceries",
        "PinAge" : 0,
        "SerializedCustomDataForClient" :
        "{\isProjectServerTask\":true,\taskData\":{\pwaUrl\":\http://office/project\\",\
        \assnUid\":\f4a10d33-dd48-4d1e-8b17-3dd327e9e219\\",\taskUid\":\cfba49cb-
3548-468c-91c0-e6df5f63ab75\\"}",
        "StartDate" : "/Date(2011,3,11,1,0,0,0)/",
        "_ObjectType_" : "SP.WorkManagement.OM.Task"
    },
    { "CustomAttributes" : [ ],
        "Description" : null,
        "DueDate" : "/Date(2011,7,16,5,0,0,0)/",
        "EditUrl" : "http://office:80/project/TaskDetails.aspx?proj=a2178405-843c-447b-
91ee-8bdeef8d9498&assn=6ed66c3f-5e51-4a3c-a5b0-6e2c6bc7b3c2",
        "Id" : 2,
        "IsCompleted" : false,

```

```

        "IsPersonal" : false,
    "LastModified" : "/Date(1321572857000)/",
        "LocationId" : 4,
        "Name" : "Pay Rent",
        "PinAge" : 0,
        "SerializedCustomDataForClient" :
    {"isProjectServerTask":true,\"taskData\":{\\"pwaUrl\\\":\\"http://office/project\\\",\\
    \\"assnUid\\\":\\"6ed66c3f-5e51-4a3c-a5b0-6e2c6bc7b3c2\\\",\\\"taskId\\\":\\"42cad6a0-
    3bf7-44ae-b953-0acaad394a6f\\\"}}",
        "StartDate" : "/Date(2011,7,7,1,0,0,0)/",
        "_ObjectType_" : "SP.WorkManagement.OM.Task"
    }
    ],
    "_ObjectType_" : "SP.WorkManagement.OM.LocationGroupClientCollection"
}
]

```

4.2 Updating a Task

In this example, the protocol client updates the title of a task (3) to "Remember the chocolate".

Request

```

<Request xmlns="http://schemas.microsoft.com/sharepoint/clientquery/2009"
SchemaVersion="15.0.0.0" LibraryVersion="15.0.0.0" ApplicationName="Javascript Library">
  <Actions>
    <ObjectPath Id="156" ObjectPathId="155" />
    <ObjectPath Id="158" ObjectPathId="157" />
    <Query Id="159" ObjectPathId="157">
      <Query SelectAllProperties="true">
        <Properties />
      </Query>
    </Query>
    <ObjectPath Id="161" ObjectPathId="160" />
  </Actions>
  <ObjectPaths>
    <Constructor Id="155" TypeId="{d82117fb-e4aa-4ab8-b590-cb2be4b2f078}" />
    <Method Id="157" ParentId="155" Name="CreateLocationOrientedSession" />
    <Method Id="160" ParentId="157" Name="UpdateTaskWithLocalizedValue">
      <Parameters>
        <Parameter Type="Number">13</Parameter>
        <Parameter Type="Number">1</Parameter>
        <Parameter Type="String">Remember the Chocolate</Parameter>
      </Parameters>
    </Method>
  </ObjectPaths>
</Request>

```

Response

The protocol server responds with the new position of the updated task (3) in the sort order of the list (1).

```

[ { "ErrorInfo" : null,
  "LibraryVersion" : "15.0.3510.3000",
  "SchemaVersion" : "15.0.0.0"

```

```

    },
    156,
    { "IsNull" : false },
    158,
    { "IsNull" : false },
    159,
    { "_ObjectType_" : "SP.WorkManagement.OM.LocationOrientedUserOrderedSession" },
    161,
    { "IsNull" : false }
  ]

```

4.3 Creating a New Task

In this example, the protocol client creates a new task (3) with the name "Go to concert".

Request

```

<Request xmlns="http://schemas.microsoft.com/sharepoint/clientquery/2009"
SchemaVersion="15.0.0.0" LibraryVersion="15.0.0.0" ApplicationName="Javascript Library">
  <Actions>
    <ObjectPath Id="1" ObjectPathId="0" />
    <ObjectPath Id="3" ObjectPathId="2" />
    <Query Id="4" ObjectPathId="2">
      <Query SelectAllProperties="true">
        <Properties />
      </Query>
    </Query>
    <ObjectPath Id="6" ObjectPathId="5" />
    <Query Id="7" ObjectPathId="5">
      <Query SelectAllProperties="true">
        <Properties />
      </Query>
    </Query>
    <ObjectPath Id="9" ObjectPathId="8" />
    <Query Id="10" ObjectPathId="8">
      <Query SelectAllProperties="true">
        <Properties />
      </Query>
    </Query>
  </Actions>
  <ObjectPaths>
    <Constructor Id="0" TypeId="{924b1779-998e-4c60-a291-78edebc3c202}" />
    <Method Id="2" ParentId="0" Name="CreateSession" />
    <Method Id="5" ParentId="2" Name="CreateTask">
      <Parameters>
        <Parameter Type="String">Go to concert</Parameter>
        <Parameter Type="String"></Parameter>
        <Parameter Type="String">11/23/2011</Parameter>
        <Parameter Type="Boolean">>false</Parameter>
        <Parameter Type="Boolean">>false</Parameter>
        <Parameter Type="Number">-1</Parameter>
      </Parameters>
    </Method>
    <Property Id="8" ParentId="5" Name="Result" />
  </ObjectPaths>
</Request>

```

Response

The protocol server responds with the metadata of the new task (3) and its position in the sort order of the list (1).

```
[ { "ErrorInfo" : null,
  "LibraryVersion" : "15.0.3510.3000",
  "SchemaVersion" : "15.0.0.0"
},
1,
{ "IsNull" : false },
3,
{ "IsNull" : false },
4,
{ "_ObjectType_" : "SP.WorkManagement.OM.SortableSession" },
6,
{ "IsNull" : false },
7,
{ "Error" : 0,
  "ErrorMessage" : null,
  "_ObjectType_" : "SP.WorkManagement.OM.TaskWriteResult"
},
9,
{ "IsNull" : false },
10,
{ "CustomAttributes" : [ ],
  "Description" : null,
  "DueDate" : "/Date(2011,10,23,0,0,0,0)/",
  "EditUrl" : "EditTask.aspx?taskId=15",
  "Id" : 15,
  "IsCompleted" : false,
  "IsPersonal" : true,
  "LastModified" : "/Date(1321573451000)/",
  "LocationId" : -1,
  "Name" : "Go to concert",
  "PinAge" : 0,
  "SerializedCustomDataForClient" : null,
  "StartDate" : "/Date(1,0,1,0,0,0,0)/",
  "_ObjectType_" : "SP.WorkManagement.OM.Task"
}
]
```

5 Security

5.1 Security Considerations for Implementers

None.

5.2 Index of Security Parameters

None.

Preliminary

6 Appendix A: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include released service packs:

- Microsoft® SharePoint® Server 2013 Preview

Exceptions, if any, are noted below. If a service pack or Quick Fix Engineering (QFE) number appears with the product version, behavior changed in that service pack or QFE. The new behavior also applies to subsequent service packs of the product unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

Unless otherwise specified, any statement of optional behavior in this specification that is prescribed using the terms SHOULD or SHOULD NOT implies product behavior in accordance with the SHOULD or SHOULD NOT prescription. Unless otherwise specified, the term MAY implies that the product does not follow the prescription.

[<1> Section 3.1.5.45.2.1.3:](#) This method is only supported by Exchange 2013 Preview.

[<2> Section 3.1.5.45.2.1.4:](#) This method is only supported by Exchange 2013 Preview.

[<3> Section 3.1.5.45.2.2.6:](#) This method is only supported by Exchange 2013 Preview.

7 Change Tracking

This section identifies changes that were made to the [MS-WMCSOM] protocol document between the April 2012 and July 2012 releases. Changes are classified as New, Major, Minor, Editorial, or No change.

The revision class **New** means that a new document is being released.

The revision class **Major** means that the technical content in the document was significantly revised. Major changes affect protocol interoperability or implementation. Examples of major changes are:

- A document revision that incorporates changes to interoperability requirements or functionality.
- An extensive rewrite, addition, or deletion of major portions of content.
- The removal of a document from the documentation set.
- Changes made for template compliance.

The revision class **Minor** means that the meaning of the technical content was clarified. Minor changes do not affect protocol interoperability or implementation. Examples of minor changes are updates to clarify ambiguity at the sentence, paragraph, or table level.

The revision class **Editorial** means that the language and formatting in the technical content was changed. Editorial changes apply to grammatical, formatting, and style issues.

The revision class **No change** means that no new technical or language changes were introduced. The technical content of the document is identical to the last released version, but minor editorial and formatting changes, as well as updates to the header and footer information, and to the revision summary, may have been made.

Major and minor changes can be described further using the following change types:

- New content added.
- Content updated.
- Content removed.
- New product behavior note added.
- Product behavior note updated.
- Product behavior note removed.
- New protocol syntax added.
- Protocol syntax updated.
- Protocol syntax removed.
- New content added due to protocol revision.
- Content updated due to protocol revision.
- Content removed due to protocol revision.
- New protocol syntax added due to protocol revision.

- Protocol syntax updated due to protocol revision.
- Protocol syntax removed due to protocol revision.
- New content added for template compliance.
- Content updated for template compliance.
- Content removed for template compliance.
- Obsolete document removed.

Editorial changes are always classified with the change type **Editorially updated**.

Some important terms used in the change type descriptions are defined as follows:

- **Protocol syntax** refers to data elements (such as packets, structures, enumerations, and methods) as well as interfaces.
- **Protocol revision** refers to changes made to a protocol that affect the bits that are sent over the wire.

The changes made to this document are listed in the following table. For more information, please contact protocol@microsoft.com.

Section	Tracking number (if applicable) and description	Maj or change (Y or N)	Cha nge type
1.1 Glossary	Added new terms: Hypertext Transfer Protocol (HTTP), Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS), aggregator, JavaScript Object Notation (JSON), session, view.	N	New content added.
3.1.5.1 Microsoft.SharePoint.WorkManagement.Client.BaseSession	Changed the text from "session (1)" to "session (2)".	N	Content updated.
3.1.5.1.2.2.3 CreateTask	Added missing descriptions for parameters.	N	Content updated.
3.1.5.1.2.2.7 PinTask	Added the definition number for term "task".	N	Content updated.
3.1.5.1.2.2.11 GetCalloutInfo	Added new ObjectPath method for Microsoft.SharePoint.WorkManagement.Client.BaseSession.	Y	New content added.

Section	Tracking number (if applicable) and description	Maj or change (Y or N)	Cha nge type
3.1.5.1.2.2.12 ReadAllNonTaskData	Added new ObjectPath method for Microsoft.SharePoint.WorkManagement.Client.BaseSession.	Y	New content added.
3.1.5.1.2.2.13 RefreshSingleTask	Added new ObjectPath method for Microsoft.SharePoint.WorkManagement.Client.BaseSession.	Y	New content added.
3.1.5.4 Microsoft.SharePoint.WorkManagement.Client.CreateRefreshJobResult	Added additional references for the BeginCacheRefresh method.	N	New content added.
3.1.5.8 Microsoft.SharePoint.WorkManagement.Client.DateRangeCriterion	Added the definition number for term "task".	N	Content updated.
3.1.5.9 Microsoft.SharePoint.WorkManagement.Client.GetRefreshHistoryResponse	Updated references in the description.	N	Content updated.
3.1.5.10.1.1.7 Important	Added new scalar property for Microsoft.SharePoint.WorkManagement.Client.Location.	Y	New content added.
3.1.5.13.1.1.1 LocationKeys	Changed title from "IncludeTasksInDescendantLocations".	N	Content updated.
3.1.5.13.1.1.2 IncludeUncategorizedTasks	Changed title from "LocationKeys", and added description.	Y	New content added.
3.1.5.14.2.2.1 CSOM Constructor	Added new ObjectPath method for Microsoft.SharePoint.WorkManagement.Client.LocationGroupClientCollection.	Y	New content added.
3.1.5.15 Microsoft.SharePoint.WorkManagement.Client.L	Changed the text from "session (1)" to "session (2)".	N	Content

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
LocationOrientedSortableSession			updated.
3.1.5.15.2.2.3 CreateTask	Added missing descriptions for parameters, and revised others.	N	Content updated.
3.1.5.15.2.2.12 GetCalloutInfo	Added new ObjectPath method for Microsoft.SharePoint.WorkManagement.Client.LocationOrientedSortableSession.	Y	New content added.
3.1.5.15.2.2.13 ReadAllNonTaskData	Added new ObjectPath method for Microsoft.SharePoint.WorkManagement.Client.LocationOrientedSortableSession.	Y	New content added.
3.1.5.15.2.2.14 RefreshSingleTask	Added new ObjectPath method for Microsoft.SharePoint.WorkManagement.Client.LocationOrientedSortableSession.	Y	New content added.
3.1.5.16 Microsoft.SharePoint.WorkManagement.Client.LocationOrientedUserOrderedSession	Changed the text from "session (1)" to "session (2)".	N	Content updated.
3.1.5.16.2.2.3 CreateTask	Added missing parameter descriptions, and revised others.	N	Content updated.
3.1.5.16.2.2.12 GetCalloutInfo	Added new ObjectPath method for Microsoft.SharePoint.WorkManagement.Client.LocationOrientedUserOrderedSession.	Y	New content added.
3.1.5.16.2.2.13 ReadAllNonTaskData	Added new ObjectPath method for Microsoft.SharePoint.WorkManagement.Client.LocationOrientedUserOrderedSession.	Y	New content added.
3.1.5.16.2.2.14 RefreshSingleTask	Added new ObjectPath method for Microsoft.SharePoint.WorkManagement.Client.LocationOrientedUserOrderedSession.	Y	New content added.

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
3.1.5.27.1.1.2 RefreshId	Added new scalar property for Microsoft.SharePoint.WorkManagement.Client.RefreshEventInfo.	Y	New content added.
3.1.5.27.1.2.1 TaskChangesByLocation	Changed title from ProviderRefreshStatus.	N	Content updated.
3.1.5.27.1.2.2 RefreshJobStatus	Changed title from TaskChangesByLocation, and revised description.	N	Content updated.
3.1.5.31.1.1.1 AggregatorRefreshState	Updated description to identify the term "aggregator" as a glossary term.	N	Content updated.
3.1.5.32 Microsoft.SharePoint.WorkManagement.Client.SortableSession	Changed the text from "session (1)" to "session (2)".	N	Content updated.
3.1.5.32.2.2.3 CreateTask	Added missing parameter descriptions, and revised others.	N	Content updated.
3.1.5.32.2.2.12 GetCalloutInfo	Added new ObjectPath method for Microsoft.SharePoint.WorkManagement.Client.SortableSession.	Y	New content added.
3.1.5.32.2.2.13 ReadAllNonTaskData	Added new ObjectPath method for Microsoft.SharePoint.WorkManagement.Client.SortableSession.	Y	New content added.
3.1.5.32.2.2.14 RefreshSingleTask	Added new ObjectPath method for Microsoft.SharePoint.WorkManagement.Client.SortableSession.	Y	New content added.
3.1.5.33.2.2.1 CreateLocationOrientedSession	Changed the text from "session (1)" to "session (2)".	N	Content updated.

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
3.1.5.33.2.2.2 CreateSession	Changed the text from "session (1)" to "session (2)".	N	Content updated.
3.1.5.34.1.2 IsCompleted	Changed value from '2' to '11'.	Y	Protocol syntax updated.
3.1.5.34.1.3 Id	Changed value from '3' to '1'.	Y	Protocol syntax updated.
3.1.5.34.1.4 DueDate	Changed value from '4' to '5'.	Y	Protocol syntax updated.
3.1.5.34.1.5 Description	Changed value from '6' to '4'.	Y	Protocol syntax updated.
3.1.5.34.1.6 PinAge	Changed value from '7' to '19'.	Y	Protocol syntax updated.
3.1.5.34.1.7 Location	Changed value from '8' to '15'.	Y	Protocol syntax updated.
3.1.5.34.1.8 LastModified	Changed value from '9' to '14'.	Y	Protocol syntax updated.

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
3.1.5.34.1.9 DiscoveredDate	Changed value from '20' to '2'.	Y	Protocol syntax updated.
3.1.5.34.1.10 Title	Changed value from '1' to '18'.	Y	Protocol syntax updated.
3.1.5.37.1.1.1 CustomAttributes	Added the definition number for term "task".	N	Content updated.
3.1.5.37.1.1.4 EditUrl	Updated the description for clarity.	N	Content updated.
3.1.5.37.1.1.11 SerializedCustomDataForClient	Updated the description.	N	Content updated.
3.1.5.37.1.1.14 IsReadOnly	Added new scalar property for Microsoft.SharePoint.WorkManagement.Client.Task.	Y	New content added.
3.1.5.38.2.2.1 CSOM Constructor	Added new ObjectPath method for Microsoft.SharePoint.WorkManagement.Client.TaskClientCollection.	Y	New content added.
3.1.5.42 Microsoft.SharePoint.WorkManagement.Client.UserOrderedSession	Changed the text from "session (1)" to "session (2)".	N	Content updated.
3.1.5.42.2.2.3 CreateTask	Added missing parameter descriptions, and revised others.	N	Content updated.
3.1.5.42.2.2.11 UpdateTaskWithLocalizedValue	Updated the description of the "value" parameter.	N	Content

Section	Tracking number (if applicable) and description	Maj or change (Y or N)	Change type
			updated.
3.1.5.42.2.2.12 GetCalloutInfo	Added new ObjectPath method for Microsoft.SharePoint.WorkManagement.Client.UserOrderedSession.	Y	New content added.
3.1.5.42.2.2.13 ReadAllNonTaskData	Added new ObjectPath method for Microsoft.SharePoint.WorkManagement.Client.UserOrderedSession.	Y	New content added.
3.1.5.42.2.2.14 RefreshSingleTask	Added new ObjectPath method for Microsoft.SharePoint.WorkManagement.Client.UserOrderedSession.	Y	New content added.
3.1.5.43 Microsoft.SharePoint.WorkManagement.Client.UserOrderedSessionManager	Updated the description to indicate the types of sessions managed by this operation.	N	New content added.
3.1.5.43.2.2.1 CreateLocationOrientedSession	Changed the text from "session (1)" to "session (2)".	N	Content updated.
3.1.5.43.2.2.2 CreateSession	Changed the text from "session (1)" to "session (2)".	N	Content updated.
3.1.5.44.1.1.9 ImportantLocationIds	Added new scalar property for Microsoft.SharePoint.WorkManagement.Client.UserSettings.	Y	New content added.
3.1.5.45.2.1.2 IsExchangeJobPending	Added new scalar method for Microsoft.SharePoint.WorkManagement.Client.UserSettingsManager.	Y	New content added.
3.1.5.45.2.1.3 OptIntoExchangeSync	Added new scalar method for Microsoft.SharePoint.WorkManagement.Client.UserSettingsManager.	Y	New content added.

Section	Tracking number (if applicable) and description	Maj or change (Y or N)	Change type
			d.
3.1.5.45.2.1.4 OptOutOfExchangeSync	Added new scalar method for Microsoft.SharePoint.WorkManagement.Client.UserSettingsManager.	Y	New content added.
3.1.5.45.2.1.5 SetPersistedProperties	Added new scalar method for 3.1.5.45 Microsoft.SharePoint.WorkManagement.Client.UserSettingsManager.	Y	New content added.
3.1.5.45.2.2.6 GetExchangeSyncInfo	Added new ObjectPath method for Microsoft.SharePoint.WorkManagement.Client.UserSettingsManager.	Y	New content added.
3.1.5.45.2.2.7 GetPersistedProperties	Added new ObjectPath method for Microsoft.SharePoint.WorkManagement.Client.UserSettingsManager.	Y	New content added.
3.1.5.46 Microsoft.SharePoint.WorkManagement.Client.ViewSelectionInfo	Formatted a glossary term.	N	Content updated.
3.1.5.46.1.1.1 Id	Formatted a glossary term.	N	Content updated.
3.1.5.46.1.1.3 Name	Formatted a glossary term.	N	Content updated.
3.1.5.47.1.2 IsCompleted	Changed value from "2" to "11".	Y	Content updated.
3.1.5.47.1.3 DueDate	Changed value from "4" to "5".	Y	Content updated.
3.1.5.47.1.4 Description	Changed value from "6" to "4".	Y	Content

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
			updated.
3.1.5.47.1.5 Title	Changed value from "1" to "18".	Y	Content updated.
3.1.5.47.1.6 EditUrl	Added new field value for Microsoft.SharePoint.WorkManagement.Client.WritableTaskField.	Y	New content added.
3.1.5.47.1.7 StartDate	Added new field value for Microsoft.SharePoint.WorkManagement.Client.WritableTaskField.	Y	New content added.
3.1.5.48.1.10 StartDateInvalid	Added new field value for Microsoft.SharePoint.WorkManagement.Client.WriteFieldType.	Y	New content added.
3.1.5.48.1.11 DescriptionInvalid	Added new field value for Microsoft.SharePoint.WorkManagement.Client.WriteFieldType.	Y	New content added.
3.1.5.48.1.12 IsCompletedInvalid	Added new field value for Microsoft.SharePoint.WorkManagement.Client.WriteFieldType.	Y	New content added.
3.1.5.48.1.13 TitleInvalid	Added new field value for Microsoft.SharePoint.WorkManagement.Client.WriteFieldType.	Y	New content added.
3.1.5.48.1.14 EditUrlInvalid	Added new field value for Microsoft.SharePoint.WorkManagement.Client.WriteFieldType.	Y	New content added.
3.1.5.50 Microsoft.SharePoint.WorkManagement.Client.CalloutInfo	Added.	Y	New content

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
			added.
3.1.5.51 Microsoft.SharePoint.WorkManagement.Client.DashboardScriptExtensionInfoClientCollection	Added.	Y	New content added.
3.1.5.52 Microsoft.SharePoint.WorkManagement.Client.ExchangeOptInResult	Added.	Y	New content added.
3.1.5.53 Microsoft.SharePoint.WorkManagement.Client.ExchangeSyncResult	Added.	Y	New content added.
3.1.5.54 Microsoft.SharePoint.WorkManagement.Client.ExchangeUserSyncState	Added.	Y	New content added.
3.1.5.55 Microsoft.SharePoint.WorkManagement.Client.NonTaskDataReadResult	Added.	Y	New content added.
3.1.5.56 Microsoft.SharePoint.WorkManagement.Client.PersistedProperties	Added.	Y	New content added.
3.1.5.56.1.1.4 QuickLaunchLandingPage	Added content, with formatted glossary term.	N	New content added.
3.1.5.57 Microsoft.SharePoint.WorkManagement.Client.TaskRefreshResult	Added.	Y	New content added.
4.1 Retrieving Active Tasks for a User	Updated list of tasks returned by the server in the example to include "Pay Rent".	N	Content

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
			updated.
4.1 Retrieving Active Tasks for a User	Added reference for the ReadTasks method.	N	New content added.
	Removed scalar method ReadSharePointTaskInfo from ...LocationOrientedSortableSession.	Y	Content removed.
	Removed scalar method ReadSharePointTaskInfo from ...Client.BaseSession.	Y	Content removed.
	Removed scalar method ReadSharePointTaskInfo from ...LocationOrientedSortableSession.	Y	Content removed.
	Removed scalar method ReadSharePointTaskInfo from ...LocationOrientedUserOrderedSession.	Y	Content removed.
	Removed scalar method ReadSharePointTaskInfo from ...SortableSession.	Y	Content removed.
	Removed scalar property "IsTaskEditableInApp" from ...Client.Task.	Y	Protocol syntax updated.
	Removed scalar method ReadSharePointTaskInfo from ...UserOrderedSession.	Y	Content removed.
	Removed scalar method	Y	Cont

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
	ReadSharePointTaskInfo from ...UserOrderedSession.		ent removed.
	Removed scalar property "ImportantLocations" from ...UserSettings.	Y	Content removed.

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